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WASTEWATER ENGINEERING AND MANAGEMENT PLAN FOR BOSTON HARBOR-EA--ETC(U)
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WASTEWATER ENGINEERING AND MANAGEMENT PLAN



FOR

BOSTON HARBOR - EASTERN MASSACHUSETTS METROPOLITAN AREA

TECHNICAL DATA VOL. 1
PLANNING CRITERIA

ADA 036793



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WASTEWATER ENGINEERING AND MANAGEMENT PLAN

FOR

Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA STUDY

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BOSTON HARBOR - EASTERN MASSACHUSETTS METROPOLITAN AREA

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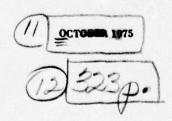
FOR THE

METROPOLITAN DISTRICT COMMISSION

COMMONWEALTH OF MASSACHUSETTS

BY

METCALF & EDDY, INC.



410 091

REPORT

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CHAPTER 1

INTRODUCTION

Report Structure

As shown on the inside cover the study results are presented in a series of volumes.

This report is Technical Data Vol. 1, Planning Criteria and covers the development of planning data for projecting sewerage needs in the EMMA area. More specifically, projections of population, employment, and land use for 1990, 2000, 2020, and 2050 for each community and selected subdivisions is made. These in turn will be used to estimate future wastewater contributions.

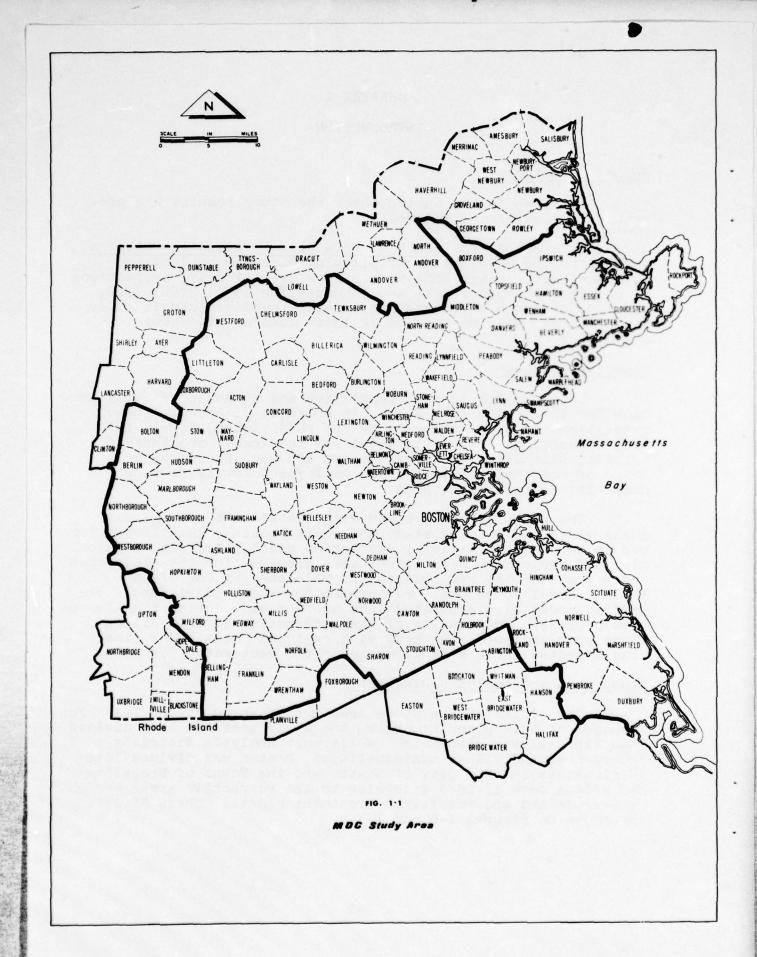
Planning Approach

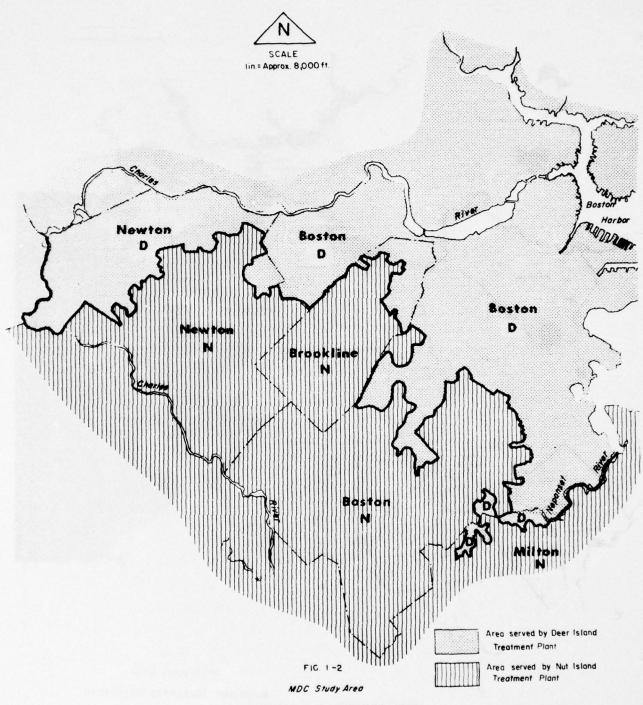
Total projections of population and economic activity were made for the entire EMMA area. In order to distribute these projections to each community or its subdivision, it was felt that an activity allocation model was required. The EMPIRIC Activity Allocation model was chosen and used to allocate a share of regional population and employment totals to each community or its subdivision.

The planning phase began with a statement of regional goals which could be related, and where possible quantified, for use in the EMPIRIC Activity Allocation model. Regional population and employment projections were prepared for the study area, and a share of the regional totals allocated by use of the EMPIRIC Model to each of the communities and subdivisions. The EMPIRIC model also generated land use for each during the allocation process. The results of the alternative EMPIRIC allocations were analyzed, compared with regional goals and a final plan selected which will be used for the wastewater planning.

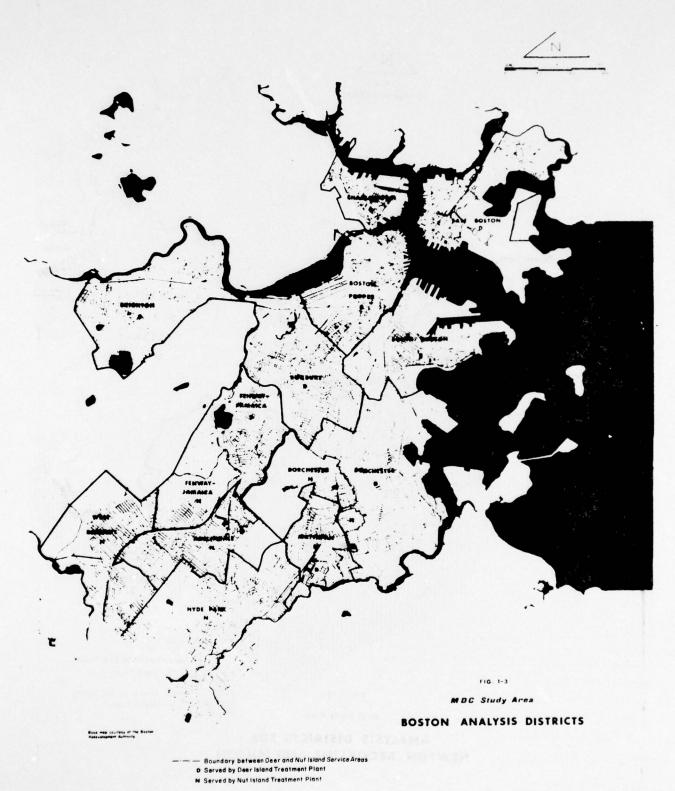
Study Area and Analysis Districts

The limits of the Study area are shown on Figure 1-1. For purposes of this planning phase, the study area has been divided into 125 analysis districts. While most analysis districts represented individual municipalities, Boston was divided into 14 districts and the City of Newton and the Towns of Brookline and Milton were divided according to the respective areas served by Deer Island and Nut Island treatment plants. These divisions are shown on Figures 1-2 and 1-3.





ANALYSIS DISTRICTS FOR NEWTON, BROOKLINE AND MILTON



CHAPTER 2

GOALS AND OBJECTIVES

The purpose of this chapter is to set forth the regional development goals and objectives which have direct implications on the planning of future wastewater disposal systems and overall water quality management planning. Some of these goals and objectives were used directly, others indirectly, in deriving policy statements for forecasting regional activity allocation with the EMPIRIC model.

Definitions

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The definitions of goals and objectives as used in this report are as follows:

Goal: A goal is a broad statement of direction upon

which future development decisions can be based and future courses of action can be

established.

Objective: A specific statement of direction upon

which specific development policies may be

formulated and quantified.

Methodology

The method used in selecting regional goals and objectives is as follows:

- Obtain statement of the previously published goals and objectives of the MAPC (Metropolitan Area Planning Council).*
- 2. Obtain previously published statements of goals of State agencies which may be applicable to our regional study area (carried out by MAPC).
- 3. Review the previously stated goals and policies and select those which have direct implications on the planning of regional sewerage systems and overall regional water quality management planning.
- 4. Prepare an interpretive statement of the effect of each selected goal and objective on regional sewerage systems and overall regional water quality management planning.

Guides for Progress: Development Opportunities for Metropolitan Boston, April, 1968.

- 5. Review these selected goals and objectives and our derived statement of impact with MAPC, MIC, and The Technical Subcommittee.
- 6. Prepare a final statement of goals and objectives.

It should be noted that in some cases a general statement of a particular goal or objective with the implications on a regional wastewater planning project is not made in this study. However, the overall regional planning criteria were derived from the broader-stated MAPC goal.

Statement of Goals and Objectives

The statements of goals and objectives have been divided into four broad categories. These are 1) Housing, 2) Economic, 3) Environmental, 4) Transportation. The statement of selected MAPC goals and objectives for the MDC regional wastewater study are set forth in the following tabulation. Also, a statement interpretating the objectives for use in the application of the EMPIRIC model is presented, where appropriate, with the various objectives. Many of the quantified goals and objectives are contained in Appendices A through K of this report. Other goals, such as retaining 35 percent of the regional employment activity in the Core through 1990, were quantified as constraints to the mcdel.

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Regional

Selected goals and the formal Derived statement of criteria for objectives MDC sewerage plan

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I. HOUSING

Goal to the same of the same of

A decent home and a healthy living environment for every resident of the Metropolitan Boston region.

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Subgoals

- To increase the supply of housing for all individuals and families. including those of low and moderate income, in order to provide for a range of housing opportunities.
- To provide for a range of densities, housing types, and prices within sound neighborhoods and communities.
- To provide open residential communities receptive to all age, income, and minority groups.

Objectives

- 1. Promote the adoption of . 1. Quantified for EMPIRIC average residential densities on vacant land to encourage a range of housing types.
- 2. Encourage replacement of substandard housing with decent housing at a cost commensurate with ability of displaced persons to pay.
- allocations by setting utility service acreages by municipality by 10year period. (See Appendix D)

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2. Quantified for EMPIRIC allocations by variation of density of development. (See Appendix I)

Derived statement of criteria for MDC sewerage plan

I. HOUSING (Continued)

- 3. Encourage the rehabilitation of existing housing whenever possible and appropriate.
- 4. Encourage adequate facilities and services (educational, health, social, recreation, protection) as required to meet needs of population.
- 3. Quantified for EMPIRIC allocations by utilizing constraints on areas likely to have rehabilitation.
- 4. Quantified for EMPIRIC by determining land necessary for these facilities.

II. ECONOMIC

Goal

Assurance of the economic well-being of all residents by maintaining and enhancing the economic competitive position of the Metropolitan Boston Area in relation to the national economy and providing for an efficient geographic distribution of employment throughout the region.

- 1. Provide industrial and commercial space by 1990 to aid in the expansion and modernization of those industrial and business firms already existing in the Area.
- 1. Quantified for total regional projections by Metcalf & Eddy. Quantified for EMPIRIC allocations by changing employment density to reflect the trends of modern industry. (See Appendixes F. G and H)

Derived statement of criteria for MDC sewerage plan

II. ECONOMIC (Continued)

- 2. Maintain the Core as a center of economic activity with the objective of retaining about 35 percent of the region's total employment by 1990.
- 3. Conserve and modernize, where feasible, older industrial and commercial areas throughout the Region which have good transportation access, and good market potential.
- 4. Adopt medium-size industrial parks or districts of 200-600 acres as basic unit of development in the new or growing portions of the Metropolitan Boston area.
- 5. Encourage the location of new large (500,000 sq ft or more) and medium-size (around 200,000 sq ft) retail-office centers near transit stations and near, but not at, the intersections of radial and circumferential freeways or the intersection of major arterials.

- Quantified as constraint on allocation. "Core" area is defined as Boston, Brookline, Cambridge, Chelsea, Everett, and Somerville.
 - 3. Quantified for total regional projections by Metcalf & Eddy.
 Quantified for EMPIRIC forecasts by decreasing employment density in selected area.
 - 4. Constraint on manufacturing employment allocation to areas with available vacant land where feasible.
 - Objectives reflected in calibrated EMPIRIC model.

Derived statement of criteria for MDC sewerage plan

II. ECONOMIC (Continued)

- of local, frequent convenience-type shopping trips from regional transportation systems, through the development of local land small, retail office centers of about 100,000 sq ft in residential portions of the Area near the intersections of collector or arterial transportation routes.
- 6. Objectives reflected in calibrated EMPIRIC model.

- 7. Encourage major new industrial development only in areas provided with public sewer facilities.
- 7. Sewer service areas for use in EMPIRIC were established. The model was constrained to reflect sewerage capacity.

III. ENVIRONMENTAL GOALS

Goal

Establishment of a physical environment that is well ordered, efficient, varied as to man-made and natural features, and meets the aesthetic, health, and recreation needs of all citizens.

- Enhance, protect and conserve the natural environment and the beauty of the landscape.
- Planned open space system withheld from development. (See Appendix K)

Derived statement of criteria for MDC sewerage plan

III. ENVIRONMENTAL GOALS (Continued)

Objectives

- 2. Eliminate wherever existing, harmful and hazardous elements in the physical environment, including the reduction and elimination of stream pollution.
- 3. Provide collection and treatment facilities consistent with anticipated local and metropolitan development and adequate water quality standards.
- 4. Provide adequate water service for Metropolitan Boston by 1990.

 Provide improved wastewater service to Metropolitan Boston Area by 1990.

- Availability of sewerage service was assured where development densities and population growth demand it.
- Availability of sewerage service where development densities and quantities demand it was assured.
- 4. Quantified for EMPIRIC by designating water service area acreages by municipalities by 10-year period. Constrain growth to 1980 in communities with existing deficiencies. Assume demands will be met after 1980.
- 5. Quantified for EMPIRIC by designating sewer service area acreages by municipalities by 10-year period. Constrain growth to 1980 in communities with existing deficiencies. (See Appendix D)

TABLE 2-1 (Continued). STATEMENT OF GOALS AND OBJECTIVES

Regional
Selected goals and
objectives

Derived statement of criteria for MDC sewerage plan

III. ENVIRONMENTAL GOALS (Continued)

Objectives

- 6. Provide an open space and recreational program to include extensive land acquisition of waterfront property and islands in the Boston Harbor and other designated areas.
- 6. Restricted areas would not be available to accommodate growth under EMPIRIC. (See Appendixes K and L)

IV. TRANSPORTATION GOALS

Goal

Provide for the safe, convenient travel of the general public by means of integrated, intermodal transportation systems.

- 1. Meet transportation requirements over the next 20 years within Route 128 with improved and expanded public transportation systems, especially mass transportation.
- Provide multiple modes of transport which support other objectives of the area.
- 1. No significant increase in highways inside 128 until after 1990. Meet the Core area transportation requirements through modernization and expansion of public mass transportation.
- See Appendix A for transportation variables.

CHAPTER 3

REGIONAL PROJECTIONS

Population

The purpose of this population study is to provide regional projections of total population for the study area for 1990, 2020, and 2050. The study area population is then allocated among the 109 municipalities in the study area using the EMPIRIC activity allocation model as described in Chapter 4. The allocated municipal totals are then used to estimate future sewage flows.

Two regional population totals were finally selected and are presented here - a high and low estimate. It is anticipated that the population totals for the study area will fall somewhere within this range.

Methodology

The procedure used to develop the required population projections consisted of three steps as follows:

- Preparation of projections using two methods, the regional share method and the cohort-component method.
- 2. Comparison of the results of these projections with each other and with other projections for the study area.
- Selection of high and low estimates of population for the study area.

A description of the two projection methods is set forth below.

Regional Share Method. The regional share method entails determining a functional relationship between the past changes in the study area population and some larger region's population. This functional relationship then allocates a certain share of the larger region's projected growth to the study area.

The M&E computer program MCURVE determines the functional relationship of the population of the study area with the population of a larger region. MCURVE accomplishes this by determining if a correlation exists between a set of independent and dependent variables. Six different functions are tested by MCURVE. These six mathematical functions and their mathematical expressions are:

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Function	Mathematical expression
Linear	y = a+bx
Exponential	y = aebx
Parabolic	$y = ax^b$
Hyperbolic No. 1	$y = a + \frac{b}{x}$
Hyperbolic No. 2	$y = \frac{1}{a + bx}$
Hyperbolic No. 3	$y = \frac{x}{a+bx}$

A functional relationship of the study area population was sought with the populations of the United States and Massachusetts, respectively. The input data for MCURVE consisted of the total population of these areas every 10 years from 1900 to 1970. The study area population was the dependent variable, while the United States and Massachusetts populations were the independent variables.

Cohort-Component Method. The cohort-component method projects the three components of population change separately. These components are the birth rate, the survival rate, and the net migration rate.

The M&E computer program POPRO was used for the projections done by the cohort-component method. The input data needed was a low and high birth rate, a survival rate, and a high and low net migration for every five-year interval in the projection period.*

The birth rate is the most volatile component of population change. For this reason, high and low birth rate assumptions were made to show the effect on the population of different fertility rates. Once the high and low birth rates are supplied, POPRO computes the most probable birth rate which is roughly half-way between the high and low.

Birth rate is the number of allocated live births per 1,000 population. Allocated births refers to the place of residence of the parents. Survival rate refers to the percentage of people in a specific age group that will be alive at the end of a specific time interval. Net migration is the number of people who will establish a permanent residence in a given geographical area.

A high and low net migration for the study area was also estimated for POPRO. Like the birth rate, POPRO computes the most probable net migration by splitting the high and low net migration estimates.

The logic of POPRO is simple. The base year population, which in this case is 1970, is given by five-year age groups. The program steps in five-year intervals, calculating the population change in each five-year age group. For instance, on the basis of the base female population in the child-bearing ages 15 to 44 years and the birth rates, the number of live births that occur in the five-year interval is computed. Next, the appropriate national survival rate is applied to get the surviving populations ages 0 to 4. Then the net migration for ages 0 to 4 is added to get the population projected for the age groups 0 to 4 at the end of the five-year interval. The procedure is the same for all the other five-year age groups except that no births are added. At the end of the five-year interval, the program starts again calculating the five-year age group populations for the next five-year interval based on the figures just calculated and the new birth rate, survival rates, and net migration estimates.

The result of POPRO is a low, most probable, and high population projections by five-year age groups every five years until the design year 2050.

Analysis

This section contains the procedure for quantifying the inputs for the Cohort Survival Model. Before any assumptions about birth rate, survival rate or net migration could be made, a study was conducted of recent trends in these three components and how the trends apply to the study area.

For the survival rates this task was the simplest. Survival rates are gradually increasing and since the rates in the study area do not differ significantly from the United States as a whole, national survival rates were used.*

The recent trend in birth rates shows that the level of fertility in the United States is dropping. Data collected for the study area from the 1970 U. S. Census shows that this area is no different. Women now entering their child-bearing ages are producing children at a lower rate than their predecessors. For example, the women ages 15 to 24 years in the study areas who have already born children have an estimated ultimate completed fertility rate of 1.65 births per woman, while for women ages 35 to 44 their estimated ultimate completed fertility

^{*}Chevon, A., Lehman, P., and Wilkinson, T. O., <u>Handbook for Population Projections of Massachusetts 1970-2020</u>, Office of State Planning and Management, 1972, p. 77.

rate is 3.01 births per woman. The corresponding rate for women ages 25 to 34 is 2.25 births per woman. In view of this data, birth rates for this area seem to be headed toward replacement level fertility which is a birth rate of 2.1 births per woman.

Unlike birth rate trends, no real trend for past migration can be seen. Table 3-1 shows the net migration for the past three decades for the study area. Over the 30-year period, migration for this area reversed from an in-migration between 1940 and 1945 to an out-migration 1945 to 1965 and then back to an in-migration 1965 to 1970.

TABLE 3-1. FIVE-YEAR NET MIGRATION ESTIMATES 1940-1970

Five-year period	Net migration	
1940-44	46,724	
1945-49	-10,228	
1950-54	-22,830	
1955-59	-48,752	
1960-64	-14,506	
1965-69	37,247	

It is generally felt that net migration in an area is related to the economy of the area. However, this relationship is not known. An attempt was made, using MCURVE, to find a functional relationship between total employment in the area and the State and the net migration for the study area.

A functional relationship does exist, however, between the past net migration for Massachusetts and the past net migration for the study area. This linear relationship was applied to the Series B and Series C estimates of migration made by OSPM (Office of State Planning and Management) for Massachusetts. The results are presented in Table 3-2.

Migration estimates by OSPM have been prepared for each five-year period by age group, by sex, and by race. Their Series B estimate is based on all groups progressing to zero migration by 2015. Series C estimate is based on all groups except the white, over 60 population group progressing to zero migration. The white, over 60 population group is expected to continue out migration.

TABLE 3-2. NET MIGRATION ESTIMATES 1970-2020

	Net migration estimate			
Five-year period	OSPM's Mass. Series B	Study area estimate(1)	OSPM's Mass. Series C	Study area estimate(1)
1970-74	1,210	5,863	28,000	14,604
1975-79	-776	5,215	-4,000	4,164
1980-84	-675	5,248	-5,000	3,837
1985-89	21	5,475	-6,000	3,511
1990-94	-485	5,310	-7,000	3,185
1995-99	817	5,735	-8,500	2,695
2000-04	111	5,505	-9,000	2,532
2005-09	-185	5,408	-12,000	1,553
2010-14	-195	5,405	-15,000	575
2015-2020	0	5,469	-18,099	-435

^{1.} Based on linear functional relationship with OSPM's estimates.

Projections by Others

Besides investigating the recent trends in population growth, population forecasts done by other groups for the study area were sought. Table 3-3 shows the population projections for 1990, 2020, and 2050 of the Metropolitan Area Planning Council (MAPC), the Office of State Planning and Management (OSPM), the Bureau of Economic Analysis (BEA), and various area planning commissions. The OSPM and MAPC used a birth rate assumption of 2.5 births per woman while projecting a net migration decreasing to zero in the year 2020 for all age groups except those 60 years and older, which remained constant at their 1965-1970 out-migration level. The BEA assumed the birth rate to be 2.8, which now is considered to be too high. The area commissions projection was a composite of projections made by various planning commissions for the 109 municipalities in the study. The majority (101) of the communities, are in the MAPC area of jurisdiction, whose projections came from a 1967 report, The Economic Base and Population Study, Volume III. The population projections of the remaining communities were obtained from the Northern Middlesex Area Commission, the Central Massachusetts Regional Planning Commission, and the Central Merrimack Valley Regional Planning District Commission. All of the commissions used a cohortcomponent method along with some variations.

TABLE 3-3. POPULATION PROJECTIONS BY OTHERS (Millions of persons)

Source	1990	2020	2050
MAPC#	3.73	4.56	5.40
OSPM	3.70	4.53	NPM
Area commissions	3.78 (low) 3.98 (high)	NPM NPM	NPM NPM
Bureau of economic Analysis	4.22	6.04	NPM

NPM - No Projection Made.

Assumptions

The assumption for the regional-share projections is a basic one. Namely, it assumes that the smaller region will continue to grow in the future with the same relationship to the larger region as it has in the past.

The projections used for the Massachusetts and United States populations came from reports done by the National Planning Association and U. S. Census, respectively. The birth rates used in these projections were 2.5 births per woman for the NPA report* and 2.1 births per woman for the U. S. Census report**. The curves of these two projections are assumed to extend to the design year 2050 as shown in Figures 3-1 and 3-2.

Assumptions are made regarding each component of population change for the cohort-component method. For the survival rates it is assumed that this region does not differ significantly from the rest of the nation as a whole. Therefore, the survival rates used here are the same ones found in Table A-5 in Current Population Report Series P-25, No. 493, "Projections of the Population of the United States, by Age and Sex: 1972 to 2020". For this study, the survival rates were held constant from 2005 to 2050. Table 3-4 shows the survival rates used.

^{*}These figures were proposed by MAPC staff in May 1973.

^{*}National Planning Association Report No. 72 R-1, "Regional Demo-

graphic Projections 1960 to 1985", October 1972.
**Current Population Report Series P-25 No. 493, "Projections of the Population of the United States, by Age and Sex: 1972 to 2020", December 1972.

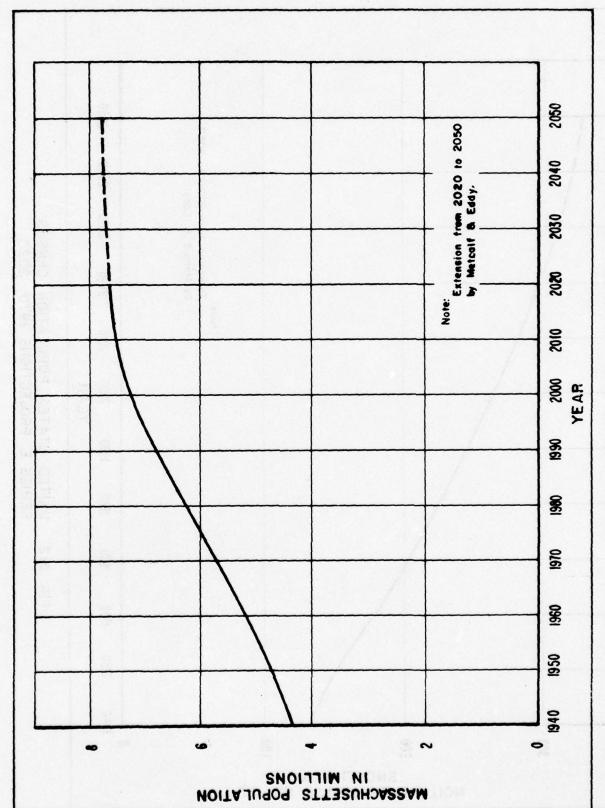


FIG. 3-1 MASSACHUSETTS POPULATION PROJECTIONS
BY NATIONAL PLANNING ASSOCIATION

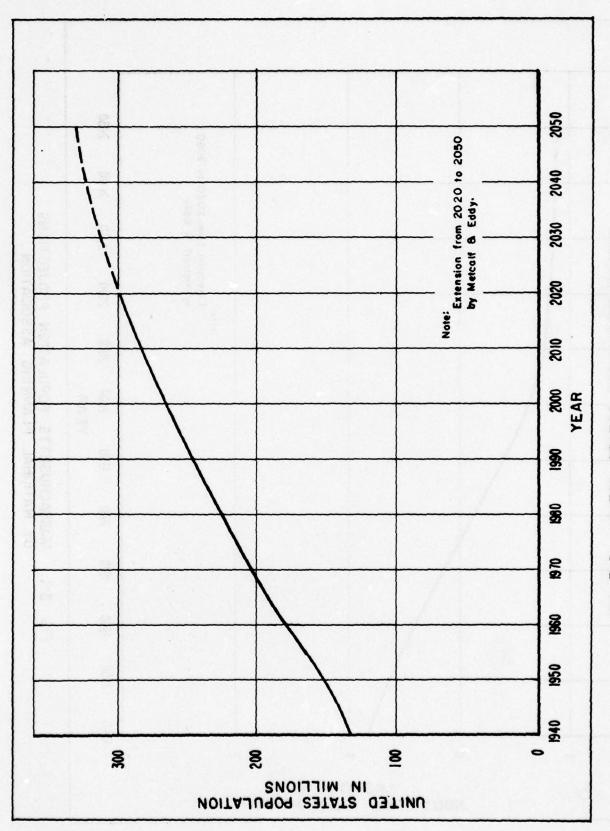


FIG. 3-2 UNITED STATES POPULATION CENSUS SERIES E PROJECTIONS 1970 - 2020

.985222 .997701 .997225 .995229 .994465 .969365 .954121 .931725 .898562 .850904 .991799 .987608 .980610 t0 2000 THE TOTAL POPULATION 1970 TO 2050 .994759 .997653 .998320 .995088 .994298 .993680 .991611 .969223 .953692 .931060 .897105 .849847 to 1995 .983794 .997492 .998290 .9947057 .994772 .993395 .991305 .968491 .952826 .929204 .895069 .847352 to 1990 .982857 .997327 .998259 .9984473 .993697 .993134 .990988 .967799 .951747 .927741 .893039 .845028 10 1985 FIVE-YEAR SURVIVAL RATES FOR 981956 997154 9987154 9987157 9987157 9987157 998717 986162 950913 926275 891063 841601 10 846996 1980 .997021 .998191 .9986588 .993692 .992632 .990364 950066 924882 888**32**9 838781 646725 10 981069 966285 1975 .979814 .996844 .998161 .996420 .993533 .992275 .989899 .985040 965376 948628 922044 884664 833615 to 1970 Terminal 3-4. 55-59 60-64 70-74 50-54 age TABLE Initial Births 10-14 250-24 251-29 351-39 40-44 50-54 55-59 60-64 5-49 69-59 5-9 age 4-0

493

Current Population Report Series, P-25, No.

Census Bureau,

S.

Source

POPRO requires high and low net migration projections as input. The migration figures selected are a straight line projection of the past relationship between the State and the study area. The procedure for selecting these figures is as follows. Migration figures prepared by other agencies were collected and a series of projection runs were made using POPRO. The curves on Figure 3-3 show the high and low net migration projection used in the first projection run. The high curve was made to peak out in 1975-1980 at approximately 48,000 in migration in the five years and level off at 10,000 in migration every five years to the year 2000. The low assumption dropped immediately to a net in migration of 5,000 every five years in the year 1980.

The constant value of 5,000 net migration for the low estimate corresponds roughly to the net migration derived from OSPM Series B by MCURVE. The constant value of 10,000 net migration for the high estimate is twice the level of the low estimate and was selected somewhat arbitrarily. However, after testing the assumption on POPRO, the high-net migration assumption was eliminated. It was felt that the continuing use of the high curve on Figure 3-3 was unreasonable. In addition to OSPM's decreasing estimated migration, net migration for Massachusetts as projected by the National Planning Association also shows a decrease in the total net migration (see Figure 3-4). Therefore, a second run of POPRO was made using a single-net migration curve for both the high and low input.

As stated earlier in this chapter, it is felt that the trend in birth rates is toward a replacement level fertility of 2.1 births per woman. Since POPRO needs high and low birth rate assumptions, the low rate was picked at 1.7 births per woman, a rate comparable to some measured rates in the last year, while the high birth rate assumption was 2.3. This sets the most probable rate at 2.0 births per woman.

Study Area Projections

Regional Share Method. Projections by the regional share method estimate future population for the study area based on the past functional relationship between the growth in the study area and the growth projected for the state of Massachusetts and for the United States as a whole.

Past population growth in the study area was found to have a linear functional relationship with growth in Massachusetts. Future projections according to this relationship in the year 2020 are shown on Figure 3-5. The curve is extended to the year 2050.

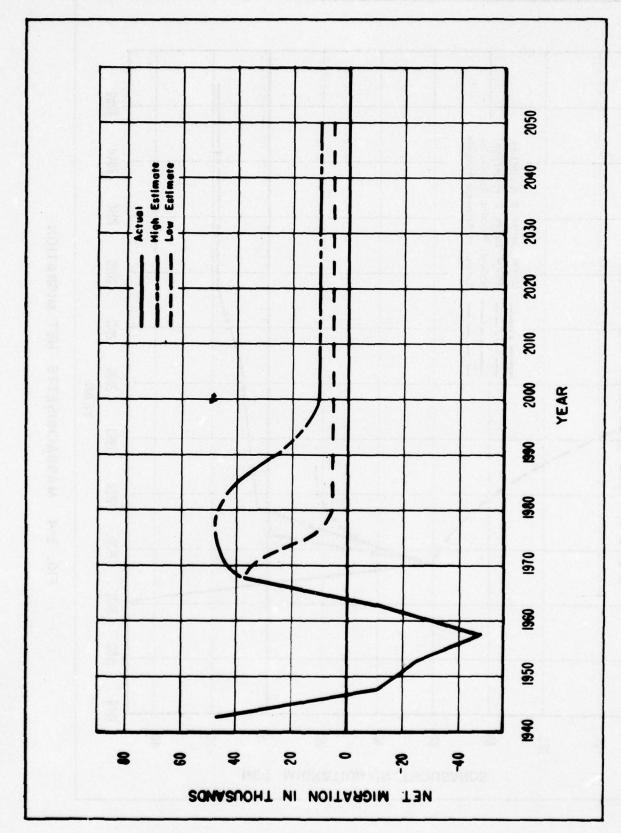


FIG. 3-3 NET MIGRATION ESTIMATES FOR STUDY AREA

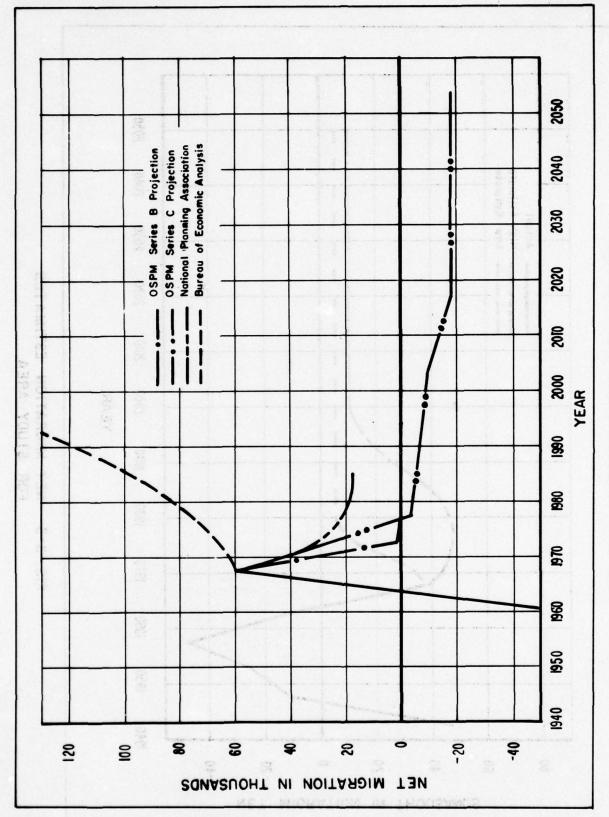
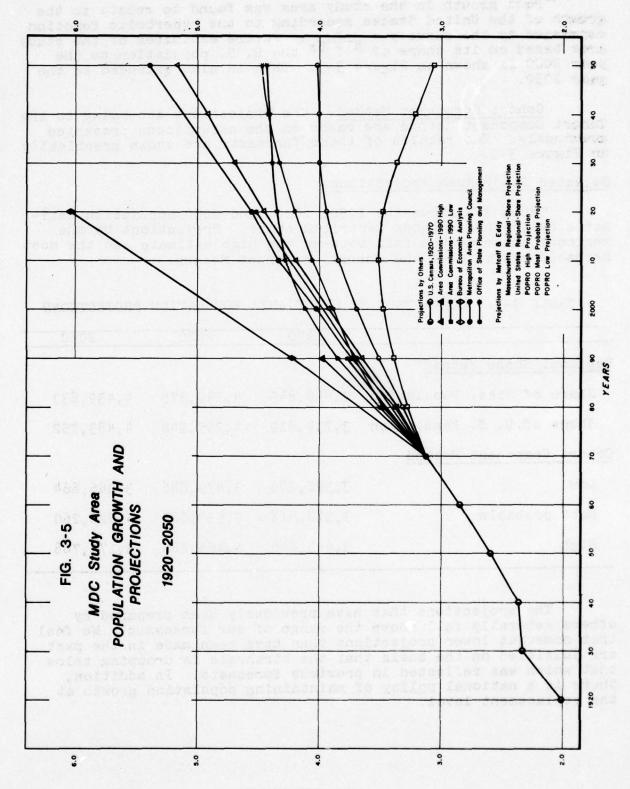


FIG. 3-4 MASSACHUSETTS NET MIGRATION



TOTAL POPULATION X 106

3-24

Past growth in the study area was found to relate to the growth of the United States according to the hyperbolic function expressed by the curve $y = \frac{x}{a+bx}$. Future estimates of the study area based on its share of $\frac{x}{a+bx}$ the U. S. population to the year 2020 is shown on Figure 3-5. This is also extended to the year 2050.

Cohort Component Method. The projections according to the Cohort Component Method are based on the assumptions presented previously. The results of these forecasts are shown graphically on Figure 3-5.

Selected Study Area Projections

Table 3-5 shows the 1990, 2020, and 2050 population estimates by the two methods described above. Projections by the regional share method fall between the high estimate and the most probable estimate of the Cohort Component Method.

TABLE 3-5. COMPARISON OF STUDY AREA POPULATION PROJECTIONS

	1990	2020	2050
Regional Share Method			
Share of Mass. Population	3,848,845	4,349,375	4,439,833
Share of U. S. Population	3,717,619	4,205,948	4,483,752
Cohort Component Method			
Low	3,391,789	3,479,886	3,066,664
Most probable	3,518,818	3,953,688	4,028,260
High	3,645,846	4,464,280	5,171,768

The projections that have previously been prepared by others generally fall above the range of our forecasts. We feel that somewhat lower projections than have been made in the past are justified on the basis that the birthrate is dropping below that which was reflected in previous forecasts. In addition, there is a national policy of maintaining population growth at the replacement level.

Our low projection, which is well below the replacement population level, seems too drastic a shift at this time since no long-term trend of a birthrate of 1.65 has yet been established. Therefore, for our population projection we have selected a range between the high forecast according to our cohort component method and the most probable forecast of this method. This gives us the range in birthrates between that just below replacement level to something above replacement level. The results are shown in Table 3-6.

TABLE 3-6. SELECTED REGIONAL POPULATION PROJECTIONS

Year	Low	High
1990	3,519,000	3,646,000
2020	3,954,000	4,464,000
2050	4,028,000	5,172,000

Economic Activity

The purpose of this section is to provide projections of regional employment totals for the study area for the years 1990, 2020, and 2050. The EMPIRIC model is then used to allocate a share of the regional employment total to each of the analysis districts in the study area.

Methodology

The study area employment was projected in the following manner:

- 1. Historical data was collected by analysis district from the Massachusetts Division of Employment Service (DES). However, DES reports only 70 percent of total employment. Therefore, major sources of "uncovered" employment, mainly government and institutional, were identified by survey for each analysis district. Districts lacking a major source of uncovered employment were assumed to have 30 percent more employment than the DES figure. City of Boston and Metropolitan Area figures were checked against estimates of total employment prepared by the Boston Authority.
- 2. Projections of others were reviewed and analyzed.

The study area's manufacturing base was analyzed in terms of growing and declining industries. The results were used to formulate assumptions for projecting manufacturing employment.
 Nonmanufacturing employment was disaggregated and projected based upon an analysis of national and local trends.
 The study area total employment was checked as a

- 5. The study area total employment was checked as a share of the U. S. employment.
- 6. Projections were reconciled and high and low study area totals were selected.

Projections by Others

Employment projections by other agencies were reviewed and analyzed subsequent to our making projections. These projections were made for somewhat different geographical areas. Therefore, to make a comparison, each projection was adjusted to make it comparable to our study area. Several of these independent projections are compared graphically on Figure 3-6.

The Metropolitan Area Planning Council in 1967 prepared employment projections by five-year intervals to the year 1990. By means of location coefficients this study disaggregated the area economy into national and local market activities. A location coefficient is the ratio of per capita employment in the study area to per capita employment in the United States. Where this ratio was greater than one, the industry was assumed to serve national markets, while those with a ratio of less than one were assumed to serve local markets.

Projections of 41 national market industry groups were made independently to determine the study area's gross regional product. The region's gross product was calculated as equal to national demand for the output of that export industry times the regional share of the national output. Employment estimates were derived by dividing the study area's projected gross product in each industry group by projected values of gross product per worker in that industry group. It was assumed that the study area's share is some function of wage rates, labor supply, labor quality, and transportation. The local market industries in each two-digit group were added together and projected using the same estimation technique as for national market industries.

In making their projections, MAPC made the following selected assumptions:

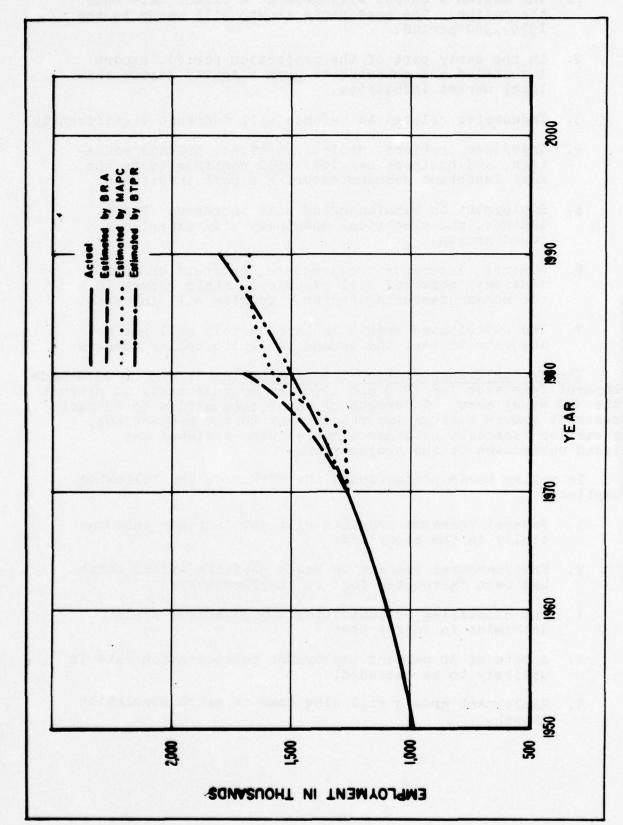


FIG. 3-6 EMPLOYMENT FORECASTS BOSTON METROPOLITAN AREA

The Region's output will grow at a slower rate than the nation. The most rapid growth will occur in the 1970-1980 period. In the early part of the projection period, export industries are expected to grow slightly faster than local market industries. 3. Industries related to defense will increase significantly. Insurance carriers, medical services, private education, and business services will continue to be the most important nonmanufacturing export industries. Employment in manufacturing will increase. Paper, leather, and electrical machinery will experience rapid growth. Finance, insurance, real estate, business and professional services will experience rapid growth in the nonmanufacturing sector. Tourism will increase. The anticipated growth in labor supply will not be adequate to meet the demand for white collar workers. The Boston Transportation Planning Review (BTPR) in 1972 made employment forecasts for 1980 and 1990 for approximately 80 percent of the MDC study area. Interests of local communities to attract or restrict growth were an important input to the projections. Many earlier forecasts by other agencies were reviewed and analyzed subsequent to the projections. In making their projections, the BTPR made the following assumptions: Federal research programs will not increase substantially in the study area. Environmental protection has a negative effect which has been "accounted for" in the forecasts. The clustering of activities would achieve scale economies in energy use. A rate of 50 percent employment participation rate is unlikely to be exceeded. Employment growth will slow down to match population growth. 3-18

- 6. The city and inner suburbs will surpass its 1950 employment by 1980.
- 7. Manufacturing, construction, wholesaling, and retailing jobs must be attracted to the city and inner suburbs.

The Boston Redevelopment Authority in 1970 made employment projections for the City of Boston and Metropolitan Boston for 1975 and 1980. An analysis of local growth patterns and the National Planning Association analysis of the historical role of the Boston metropolitan area in the national economy provide a basis for their projections.

Their assumptions were as follows:

- 1. Manufacturing employment will increase in the Core.
- 2. Services employment will increase at a faster rate from 1973-1980 than occured from 1963-1972.
- 3. Finance, insurance, business services, higher education, medical services, recreation and tourism will be rapid growth industries.

General Analysis

Export Industries. Export market industries typically have a multiplier effect on the regional economy and, therefore, were given special attention.* National market industries were identified by the Metropolitan Area Planning Council in an earlier study, using location coefficients or the ratio of per capita employment in the study area to per capita employment in the United States. This system of identifying export industries was assumed to be valid and the results used as a check in this study.

Export industries related to defense are expected to continue their decline. Transportation equipment, instruments, and electrical machinery are expected to be the major manufacturing export industries while insurance, medical services, private education, miscellaneous business services, and tourism will be the significant nonmanufacturing export industries.

Labor Force. The labor force has traditionally played a prominent role in the strength of the study area economy. Skilled low-cost production workers and numerous trained professional

^{*}Metropolitan Area Planning Council, "Economic Base and Population Study," p. 46. Assumed 2.3 total jobs for every new export job.

workers have been a strong force to attract and hold industries. However, increased labor mobility and competitive wage rates in other parts of the country are making this advantage less of a factor.

Some economists suggest that the reliance on low-cost skilled labor has been a disadvantage which has resulted in lower investment in capital equipment. High labor cost per unit of output may be the necessary compensation for the relative disadvantages in taxes, fuel, transportation, and material costs in the study area.

High-labor force participation rates due to an in-migration of young people and an interest among women to work will be important in providing workers for the expanding service industries. The large number of educational institutions is an important factor in attracting, training, and holding a labor force suitable for the service industries.

Analysis of Manufacturing Industries

In order to estimate the direction of the study area economy in the future, the past and present manufacturing base was carefully analyzed. Using the Massachusetts Industrial Directory 1971, the staff applied criteria to companies in each municipality in the study area in order to classify them as declining, or growth industries and identified those companies which are energy intensive. If a company could qualify under any of the following criteria to be in a growth industry, it was assumed to continue increasing its employment in the future. Energy-intensive industries were projected to decline.

Identification of Declining Industries. The major declining industries were identified based upon loss of jobs during the decade 1960 to 1970 in the state. The major declining industries were electrical machinery, textiles, rubber, apparel, and machinery.* Machinery and electrical machinery were projected to increase in the future while textiles, rubber and apparel were projected to decline in the study area.

Identification of Energy Intensive Industries. Recognizing the potential negative effect of an energy crisis and the present disproportionately high cost of fuel in the study area, the staff identified companies in the study area which are energy intensive. These are industries whose fuel and electric energy cost are highest in relation to total cost of materials. The following industries are the most energy intensive.**

^{*}First National Bank of Boston, "Prospects for the New England Economy," p. 11.

^{**&}quot;An Appraisal of the Economy of Massachusetts with Proposals for an Economic Strategy," K. Heinz Muehlmann, 1971.

Industry	Fuel and energy cost as % total cost of material
Stone, clay, glass	10.35%
Chemicals	6.32%
Primary metals	6.01%
Paper	5.11%
Lumber	3.28%
Rubber	3.72%

Identification of Growth Industries. Growth industries for the United States, New England, and Massachusetts have been identified by four-digit SIC (Standard Industrial Classification) numbers. Identifications were made with the help of the data supplied by the business research department of the First National Bank of Boston and from data contained in the 1963 and 1967 Censuses of Manufacturers and Business-Wholesale Trade. The names of the growth industries are contained in Appendix O.

Criteria were established consistent with the First National Bank data, which had to be entirely met before an industry in the study area was judged to be a growth industry and projected to increase its employment.

The criteria are outlined as follows:

A. Manufacturing

- 1. United States Industries
 - a. Identified as the fastest growing industries in the United States by the First National Bank.
- 2. New England Industries
 - a. An increase in industry productivity* from 1963 to 1967;
 - A stronger rise in productivity in the New England industry than for the same industry in the United States economy;
 - c. Productivity rates (for 1967) that were above the United States average for the industry studies; and

^{*}Productivity - value added by manufacture divided by number of production workers.

d. A stronger rise in the New England industry's capitallabor index* relative to the United States average for that industry.

3. Massachusetts Industries

- a. An increase in industry productivity from 1963 to 1967:
- A stronger rise in productivity in the Massachusetts industry than for the same industry in the United States economy;
- c. Productivity rates (for 1967) that were above the United States average for the industry studies; and
- d. A stronger rise in the Massachusetts industry's capital-labor index relative to the United States average for that industry.
- e. Meet at least three of the above criteria relative to the same industry in the New England economy.

B. Wholesale

- 1. United States Industries
 - a. An increase in total sales adjusted by the wholesale price index from 1963 to 1967 of greater than 20 percent.
- 2. New England Industries
 - a. An increase in total sales adjusted by the wholesale price index from 1963 to 1967.
 - b. A greater percentage increase in total sales for the New England Industry than for the United States Industry.
 - c. A greater percentage increase in sales per establishment for the New England Industry than for the United States Industry.

3. Massachusetts Industries

a. An increase in total sales adjusted by the wholesale price index from 1963 to 1967.

^{*}Capital Labor Index - value added by manufacture divided by total production worker wages paid.

- b. A greater percentage increase in total sales for the Massachusetts Industry than for the same industry in New England and the United States.
- c. A greater percentage increase in sales per establishment for the Massachusetts industry than for the same industry in New England and Massachusetts.

Summary of Manufacturing Analysis. The results indicate approximately 1,400 companies in the 1 to 150 employee category which are declining industries and about 200 which are growth industries. Of the companies with over 150 employees, approximately 900 are declining industries while 150 are growth industries. This represents approximately 40 percent of the study area industrial base which is declining and 7 percent which is likely to expand. The remaining 53 percent of the industrial base appears stable.* The results of this analysis became the basis for projecting declines in the study area manufacturing employment.

Analysis of Nonmanufacturing Industry

Local, regional, and national employment trends were analyzed in order to begin a framework for making assumptions about nonmanufacturing employment projections. Table 3-7 shows a comparison of projected regional and national trends by employment sector. Export industries were assumed to generate 1.3 jobs per employee.

Study Area Projections

Assumptions. The economy of the study area is presently in the midst of transition from primarily a manufacturing to a service-oriented economy. The traditional emphasis on nondurable goods industries, particularly textiles and leather, has shifted dramatically to durable goods manufacturing. High taxes, labor, and fuel costs contributed to the decline in nondurable goods industries and are assumed to continue having a negative effect.

Between 1947 and 1970, the City of Boston lost close to half of its manufacturing jobs while the study area as a whole lost only about 5 percent of the same type of jobs. Although much of the loss in Boston was a result of jobs moving to the suburbs, some employment moved from the study area altogether.

^{*}Industrial base - All manufacturing employment.

Export industries - Any industry located in the study area which receives more than 50 percent of its income from sales outside of the study area.

TABLE 3-7. COMPARATIVE PROJECTED TRENDS IN EMPLOYMENT

1970 to 1980(1) regional trend	1970 to 1980(2) national trend
-25%	-22%
-59%	-10%
31%	23%
- 9%	6%
15%	18%
12%	19%
21%	29%
6%	27%
-12%	9%
-69%	7\$
	regional trend -25% -59% 31% - 9% 15% 12% 21% 6%

- 1. Floyd, Charles F., "Changing Structure of Employment and Income in the Northeast Region," U.S. Department of Commerce, 1971.
- 2. U.S. Bureau of Labor Statistics.

Manufacturing jobs have generally paid higher wages and account for higher productivity than service industry jobs, so the consistent loss in manufacturing employment in recent years has caused considerable concern with some economists. Other economists feel that service industries are more attractive because they are relatively more stable, being less sensitive to taxes, fuel, and labor costs. For purposes of this study, we have assumed the transition to a service economy will continue.

Based on the analyses presented above and on the study of forecasts previously made by others, the following assumptions are made as the basis of our projections.

The factors expected to negatively influence economic growth in the study area are:*

- 1. Fuel costs are 10 to 20 percent above the national average.
- 2. Industrial power costs are 10 percent above the national average.
- 3. Massachusetts is barren of mineral resources.

^{*}Boston Transportation Planning Review, "Regional Framework," p. 42.

- 4. Very little good farmland exists in the state.
- 5. Locations are not well suited for distribution to national markets.
- 6. Unskilled labor is more expensive.
- 7. Cost of living is above the national average.
- 8. High state and local taxes are prevalent.

Certain political and economic assumptions which are reflected in the projections are:

- 1. The study area's output will grow at a slower rate than the nation. The period from 1970 to 1990 will be one of relatively slow growth in employment.
- 2. Industries related to defense will decrease in employment.
- 3. Insurance, medical services, private education, and business services will continue to be the most important nonmanufacturing export industries.
- 4. Employment in manufacturing will decrease. In particular, paper, leather, and electrical machinery will decrease between 1970 and 1980.
- 5. Finance, real estate, business and professional services will experience rapid growth. Tourism will increase.
- 6. The anticipated growth in labor supply will be more than adequate to meet the increased demand for white collar workers.
- 7. Federal research programs will not increase substantially in the study area.
- 8. Environmental protection will have a negative effect on manufacturing. The effect will be disproportionately negative in the study area.
- 9. The energy crisis will have a negative effect on the study area.
- 10. High unemployment, welfare payments, and taxes will not be alleviated until after 1980.

Trend Projections. Five categories of employment were forecasted to the year 2050.

- I-1 Dry Manufacturing Little or no process water use.
- I-2 Wet Manufacturing Moderate levels of process water use.
- I-3 Wet Manufacturing Heavy use of process water.
- I-4 Industrial Nonmanufacturing Includes agriculture, mining, construction, transportation, communications, utilities, and wholesale trade.
- I-5 Commercial Includes retail trade; finance, insurance and real estate; services; and government.

Manufacturing employment was disaggregated into two-digit SIC categories. Each two-digit category was projected independently based upon its past performance in the region and expected future performance locally in view of the conditions set forth in the analysis section. The projected two-digit categories were reaggregated into categories I-1, I-2, and I-3.

Nonmanufacturing employment was projected independently by major SIC category based upon past performance and expected regional trends. The projected SIC categories were aggregated into the categories I-4 and I-5.

Checks for Reasonableness. Several checks for reasonableness were made on the employment projections.

- 1. The study area was analyzed as a share of the United States labor force and employment for 1957, 1965, 1968, and 1980. A services-oriented economy with a 4 percent unemployment rate was assumed for the United States employment. It was assumed that the study area would have a decreasing share of the United States employment. The allocated share method is most useful as a check of reasonableness in 1980 because reliable U. S. employment forecasts beyond 1980 were not available.
- 2. The employment projection was found to be compatible with the labor force (age 15 to 64) projected independently by the cohort-survival model. During the period from 1970 to 2020 the low population projection

shows labor force to increase at a slightly faster rate than the low employment projection. The result will be a slightly lower labor force participation rate until 2020. Table 3-8 shows the labor force participation rate (ratio of labor force to employment) for the study area.

3. The computer program MCURVE was used to measure the relationship of net migration and total employment. The index of determination was 0.8 which was considered to be acceptable.

TABLE 3-8. LABOR FORCE PARTICIPATION RATE

	1970	1990	2020	2050
Low labor force participation	72	66	67	79
High labor force participation	72	71	77	71

Selected Study Area Projections

Figure 3-7 and Table 3-9 shows the high and low regional employment totals selected for the study area. Projections that have previously been made by others generally fall above the range of car forecasts. We feel that somewhat lower projections than have been made in the past are justified in view of recent trends in manufacturing and military employment.

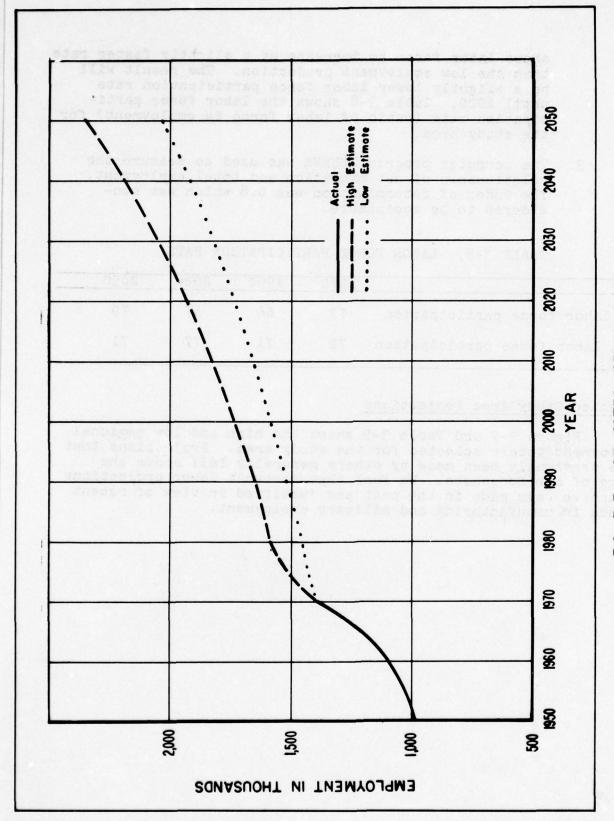


FIG. 3-7 SELECTED STUDY AREA EMPLOYMENT FORECASTS.

TABLE 3-9. SELECTED STUDY AREA EMPLOYMENT PROJECTION

I-1 Drv manufacturing	2001		2//2	222	
0	238,942	223,649	165,000	150,000	135,000
I-2 Wet manufacturing	81,384	75,865	53,000	38,000	13,000
I-3 Wet manufacturing	3,652	2,503	1,500	1,000	1,000
I-4 Nonmanufacturing industry	249,694	316,983	400,000	475,000	565,000
I-5 Commercial	530,006	770,385	000,006	1,075,000	1,320,000
Total	1,104,000	1,389,000	1,519,500	1,739,000	2,034,000
High forecast					
I-1 Dry manufacturing			210,000	195,000	180,000
I-2 Wet manufacturing			65,000	50,000	35,000
I-3 Wet manufacturing			1,500	200	200
I-4 Nonmanufacturing industry			425,000	480,000	575,000
I-5 Commercial			950,000	1,200,000	1,550,000
Total			1,651,000	1,926,000	2,341,000

CHAPTER 4

ALTERNATIVE ALLOCATIONS OF POPULATION AND EMPLOYMENT

EMPIRIC Model: An Overview

Background

Regional needs for wastewater collection and treatment facilities are based on the demands created by various land uses, such as residential development, and commercial activity. In the previous chapter we presented the forecasts of total regional employment and population. However, to meet the objectives of the MDC wastewater study, there is a need of a tool for the systematic allocations of population and employment to various subareas. Therefore, a regional activity allocation model was considered to be appropriate.

Several models of this type have been developed most of which are associated with transportation studies and forecasting. One of these models, the EMPIRIC Activity Allocation Model met the above needs and was selected for the following reasons:

- 1. It was felt that it could be generalized and used for wastewater planning purposes.
- 2. It was used previously in the Boston metropolitan area thereby providing a data base for the year 1963.
- 3. It has been used successfully in other metropolitan areas in the U.S. and has been modified with improvements with each use.

Model Structure

The version of the model calibrated for this study consists of nine simultaneous equations which attempt to allocate four categories of households and five categories of employment; more specifically, each of these categories is expressed as a "change in share" the change between the base year and the target year of a forecast interval in a district's share of the regional total of that activity.

The independent variables, or the variables on the right-hand sides of the equations which exert causal influence on the nine dependent or forecast activities, include: lagged variables; accessibility variables; developability variables; and policy variables.

The lagged variables represent base-year values of the dependent activities.

The accessibility variables represent measures of the availability of specified activities to each district, and are computed in one of two manners: using a negative exponential relationship such that accessibility decreases directly with increasing separation; or using an "opportunity" calculation, such that the measure simply represents the quantity of activity within specified separation limits, for example, manufacturing jobs within 10 miles. Since interdistrict travel times were not available for this study, airline or great circle distances between district centroids were used instead. The district centroids represent the center of population of each analysis district. The resulting variables represent not so much time accessibility measures as proximity measures. While this does limit the sensitivity of the model to major transportation improvements, it is felt that, on a regional basis, these distances are reasonably good proxies for travel times, which could not otherwise be adequately estimated within the time frame and budget of the present study. Furthermore, some sensitivity to these improvements is retained by the inclusion of a few simple district-level transportation measures, as discussed below.

The developability measures represent various combinations of the quantities and mixes of activities and land uses in each district, these being felt to impact on a district's potential for development.

Finally, the policy variables represent descriptions of certain aspects of the environment which are largely controllable by governmental policy, and include sewerage measures and transportation measures. The former are enumerated by simply distinguishing between land which is and which is not "sewered", and then estimating the acres of land served/to be served by public sewer. For future years, this was estimated in terms of the percent of developable land sewered. The transportation variables reflect both highways and rapid transit systems, and include measures of physical facilities as well as land areas within specified proximities of these facilities.

To achieve statistically more reliable causal relationships, many of the above measures were combined with one another in the creation of independent variables; especially, transportation and sewer measures were weighted by developability measures. Also, like the dependent variables, the independent variables were converted to changes in share or, simply, base-year shares.

In summary, then, the model allocates, as a function of policy and nonpolicy measures, the following activities:

- 1. low income households (0-15 percentile), 0 to \$5,500;
- lower middle income households (15-55 percentile), \$5,500 to \$12,000;
- upper middle income households (55-80 percentile), \$12,000 to \$19,200;
- 4. high income households (80-100 percentile), over \$19,200;
- 5. "dry" manufacturing employment, for example, furniture or small arms manufacturing;
- 6. "wet" manufacturing employment, for example, food canning or chemical manufacturing;
- "very wet" manufacturing employment, for example, petroleum refining;
- 8. industrial/nonmanufacturing employment, for example, wholesale trade, construction and mining; and
- 9. commercial (including government) employment, for example, retail trade, insurance, services.

The causal nonpolicy measures include, in addition to the lagged variables:

- 1. net residential acres;
- 2. net industrial-manufacturing acres;
- net industrial-nonmanufacturing acres;
- 4. net commercial acres;
- 5. vacant acres (available for development); and
- 6. interdistrict airline distances* (including average intradistrict distances based on total district areas).

^{*}The interdistrict distances were computed based on district centroids estimated for 1970 activity distributions. The same centroids were used for all forecast years inasmuch as this avoided the necessity of recomputing distances and as it was felt that changes, and the resulting impacts on the accessibility variables, would be minor.

The causal policy measures include:

- acres within 1 mile of one or more highway interchanges (having local access);
- acres within 1/2 mile of one or more rapid transit stops;
- 3. numbers of rapid transit stops;
- 4. numbers of commuter rail stops;
- 5. miles of Interstate and other primary highways; and
- 6. acres of land served by public sewer.

Use of Model

Using data collected for 1960 and 1970 the model was calibrated. The procedure for calibration consists of structuring the equations and estimating the coefficients of the equations. The calibrated model was tested by forecasting from 1960 to 1970 and comparing the results with the given data. The calibrated model was used to allocate by 10-year intervals the 1980, 1990,...2050 projections of employment, population, and land use.

Data Assembly for Calibration

Data input to model calibration included the following:

- 1. 1960 and 1970 population data;
- 2. 1960 and 1970 employment data;
- 3. 1960 land-use data;
- 4. 1960 and 1970 utilities (sewer and water) data;
- 5. 1960 and 1970 transportation data;
- 6. Major center data; and
- 7. 1960 and 1970 interdistrict distances (measured from estimated centroids of district activity).

All data was provided for each of the 125 allocation districts comprising the study area, and all districts were input to model calibration.

Population Data

Population data for 1970 was obtained from U. S. Census sources. This data was provided at the district level, and included total population, population in group quarters, and numbers of households in each of 15 income ranges. Households by income range were estimated by applying the percentage of families by income range, from the Census, General Social and Economic Characteristics, to the households. Comparable 1960 data was obtained from a tape prepared several years ago for the EMRPP (Eastern Massachusetts Regional Planning Project).

Since the EMPIRIC model calibration was to be carried out on an IBM system 370/155, appropriate data tape conversions were made and a standard EMPIRIC data set containing 142 data items for each of 125 districts was produced. Appendix A lists the basic variables which were used or combined to form the 142 data items.

Pertinent 1960 data items on the resulting data set included, for each district, total population, group quarter population, total households, total families, total unrelated individuals, median family income, median income of families plus unrelated individuals, and number of families in each of 13 income ranges. A subroutine of the EMPIRIC data combination program, "COMVAR", was then written which, based on these data, estimated the number of total households, families plus unrelated—individual households, in each of these 13 income ranges.

Because of the uncertainties of inflation and the generally rising levels of affluence, it was felt more appropriate to deal with income on a percentile basis rather than on a dollar basis, for example, households in a given district which are among the lowest 10 percent in terms of annual income, rather than households in a district having an annual income of less than, say, \$3,000. Thus, for both 1960 and 1970, another COMVAR subroutine was used to convert the district-level households-by-income-range data to housholds-by-income-percentile data. Uniform distributions were assumed within each income range.

Twenty categories of 5-percentile ranges were thus generated. These categories were than converted to the change-in-share format being utilized for the dependent or output variables in the model, for example, the change between 1960 and 1970 in the percent of the region's households in each percentile category which reside in a district. The resulting variables were then subjected to factor analysis to aid in combining these 20 variables into a fewer number to be used as dependent variables. This technique organized those variables having high statistical association. In the present context, these variables can be interpreted as exhibiting similar locational tendencies. Based on the factor analysis results and on subjective reasoning, the following dependent variables were defined:

- low income households (0-15 percentile);
- lower middle income households (15-55 percentile);
- upper middle income households (55-80 percentile); and
- high income households (80-100 percentile).

Employment Data

Requirements for the wastewater study included five categories of employment to be projected. Estimates of manufacturing employment, classified by amount of water use, are as follows:

- I-1 Dry manufacturing
- I-2 Wet manufacturing
- I-3 Very wet manufacturing.

Two categories of nonmanufacturing employment representing aggregations of major SIC categories were also designated.

- I-4 Industrial nonmanufacturing
- I-5 Commercial

Lists of SIC categories for each variable can be found in Appendix $N_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$

The Massachusetts Division of Employment Security (DES) was the primary source of employment data. As DES reports only 70 percent of total employment, estimates were made of noncovered jobs in order to approximate total employment. Government and institutional employment was estimated based upon an extensive telephone survey. Other noncovered jobs were determined based upon metropolitan employment estimates by the Boston Redevelopment Authority and State-wide estimates by DES.

Water and Sewer Data

Estimates of the following water and sewer data for each allocation district were generated:

- acreage served by public sewer in 1960;
- acreage served by public sewer in 1970;
- acreage served by public water in 1960; and
- acreage served by public water in 1970.

Data on acres served by public sewer and acres served by public water systems was derived from the 1960 and 1970 U.S. Census and the Water and Sewer Inventory prepared for MAPC in 1965.

Land-Use Data

The land-use data is not a direct output of the model, but is estimated based on forecast activity of population and employment growths plus exogenously specified development densities and other land development policies such as, public acquisition of permanent open space. Future year land-use estimates are required for the wastewater management study and are also needed for the base year of each forecast interval, as inputs to the application of the activity allocation model for the subsequent interval.

For calibration, thus, land-use data was required only for the base year of the calibration interval, 1960. This data was estimated for each district based on 1960 households and employment data, plus appropriate 1963 densities derived from an EMRPP tape containing complete 1963 population, employment and land-use data for the 626 traffic zones comprising the EMRPP study region. These data were aggregated from zones to allocation districts and required district-level population, employment, and land-use data was estimated. The aggregation was approximate since traffic zones do not conform exactly to city and town boundaries.

These procedures resulted in the following 1963 district-level data:

- total households;
- five categories of employment; and
- nine categories of land-use.

The five employment categories to be allocated in this study, as defined earlier, were aggregated from the EMRPP's two-digit SIC code data. Since the three-way division of manufacturing employment is defined partly at the three-digit SIC level, any employment in the affected two-digit categories was apportioned simply in accordance with the number of corresponding three-digit categories falling within the "dry", "wet", and "very wet" definitions.

The land-use categories with which the present study deals were defined jointly by M&E and PMM&Co. in conjunction with the Metropolitan Area Planning Council (MAPC). These categories are:

- 1. Residential All residential dwellings including trailer courts, apartments, boarding houses, and residential construction.
- Commercial Includes hotels, retail establishments, office buildings, banks, hospitals, etc.
- Industrial/manufacturing Manufacturing plants and factories.
- 4. Industrial/nonmanufacturing Bus terminals, port facilities, wholesale trade and warehouses.
- Extensive industrial Railroad facilities, airports, mines and gravel pits, utilities and treatment plants.
- 6. Extensive institutional Universities, military institutions.
- 7. Streets and highways (including major parking facilities).
- 8. Restricted open spaces Parks, golf courses, amusement areas and water.
- 9. Vacant land.

Specific EMRPP land-use codes for each category can be found in Appendix N.

The residential, commercial, and two industrial categories are computed in each district after each 10-year forecast on the basis of the forecast households and employment plus exogenously specified development densities. Streets and highways are computed as factors of growths in the other categories. Restricted open space, extensive industrial, and extensive institutional lands are withheld from development during the forecasting chain except when specifically released to relieve land shortages in certain instances.

Consistent with this approach, the following net densities were computed for each district for 1963:

- residential (total households divided by residential acres);
- commercial (commercial employees divided by commercial acres);
- industrial/manufacturing (total manufacturing employees divided by industrial/manufacturing acres); and

- industrial/nonmanufacturing (industrial/nonmanufacturing employees divided by industrial/nonmanufacturing employees).

Since a few of the districts contained industrial activity in 1960 but had no industrial employment and/or land-use according to the 1963 data, average densities for the city of Boston and for the remainder of the MDC study region were computed and used as default values: these included industrial/manufacturing densities of 125.0 and 40.8 employees per acre for Boston and nonBoston districts, respectively, and corresponding industrial/nonmanufacturing densities of 49.0 and 20.1 employees per acre.

The assumption was then made that densities were the same in 1960 as they were in 1963, and estimates of 1960 residential, commercial, and two types of industrial land use were prepared by dividing the 1960 households and appropriate employment categories in each district by the corresponding 1963 densities in that district. Acres of streets and highways were backdated by subtracting or adding, as appropriate, an amount of land equal to 12 percent of the change in residential, commercial, and industrial lands. Extensive land-holdings and restricted open space were held constant. Vacant land was estimated as a residual. To correct for the acreage discrepancies between the cities and towns and the corresponding zonal aggregations, all land areas were scaled to total district acreages.

This data was then reviewed, noting particularly districts where the EMRPP acreages were scaled up or down by more than 10 percent, districts having little or no vacant land, districts with large extensive land-holdings, and districts experiencing significant growth during the early 1960's. Appropriate changes and corrections were noted, and the data set was updated to provide the 1960 land-use data to be input to model calibration.

Similar procedures were followed to produce estimates of the 1970 land-use data, since it was convenient to do this simultaneously with the estimation of the 1960 data. The 1970 data, however, was not required for model calibration, but was prepared for model application.

Transportation Data

The following items of transportation data were provided for each district for 1960 and for 1970.

- miles of Interstate highways;
- miles of non-Interstate primary roads;
- miles of rapid transit rights-of-way;
- miles of commuter rail rights-of-way;

- miles of railroad rights-of-way for 1970 only;
- number of highway interchanges at which there is access to the local street system;
- number of highway ramps to/from local-access streets;
- number of commuter rail stops;
- number of rapid transit stops;
- miles from center of population to nearest highway interchange;
- number of rapid transit stops within one mile of the district centroid;
- total acres, excluding water area, within two miles of one or more local-access highway interchanges;
- total acres within one mile of one or more highway interchanges;
- total acres within one-half mile of one or more highway interchanges;
- total acres within one-half mile of one or more rapid transit stops; and
- total acres of vacant land 1/2, 1 and 2 miles from highway interchanges.

Major Centers

The EMPIRIC model allocates population and employment based upon the relative development potential of each analysis district in terms of public facilities, accessibility, existing population and employment. Political decisions which locate unusually large concentrations of population and employment, such as Prudential Center, would bias the model. Therefore, Prudential Center and Government Center were segregated during calibration in order that the model not be biased.

For both major centers, an estimate was made of total employment by category and total population by income range. Income range was estimated based upon rents, in the case of Prudential Center.

Inter-District Distances

Using Census maps showing population concentration, centroids of population in each district for 1960 and for 1970 were estimated and inter-district airline distances were computed. Also, average intra-district distances based on total district areas were calculated. The 1960 distances were then input to the computation of accessibility of activity proximity measures. The 1970 distances are used to compute comparable measures for input to model application for the first forecast interval.

The Calibration Process

Creation of Variables and the Final Calibration Data Set

Using standard EMPIRIC programs, all basic items of 1960 calibration data, except the distance matrices, were merged into a single data set. These data items were to be used in the creation of variables to be tested during the calibration process for possible inclusion in the model; 48 data items were thus included. A comparable 1970 data set was also created, as shown in Appendix A.

Using these basic data items, variables of the following types were then computed:

- Accessibility/opportunity measures;
- "developability" measures;
- utilities measures;
- 4. transportation system measures; and
- 5. combined utilities-transportation measures.

The accessibility and opportunity measures are activityspecific, and computed using the EMPIRIC accessibility computation program ("ACES"). The accessibility measure is of the general form

where R_{ih} = the quantity of activity i in district h;

H = the total number of districts in the study region;

e = the base of natural logarithms;

- t_{gh} = travel impedance between districts g and h (approximated in this instance by airline distance); and
- B = an empirically derived factor (set equal to 0.15 for this study).

Because distance rather than travel time was used, the resulting measure might more appropriately be thought of as an indicator of proximity to activities of specified types, but the term accessibility has been used.

The opportunity measure requires similar inputs to those needed for the accessibility measure, but is formulated simply as the quantity of activity or number of "opportunities" reachable within specified travel impedance limits, for example, the number of manufacturing jobs within 10 miles of a district.

The developability measures attempt to define base-year activity and land-use characteristics which impact on the ability and propensity of the allocation districts to accommodate various types of development. These measures were created by combining the basic household, employment, and land-use data in various configurations which indicated statistically reliable causal relationships.

The utilities and transportation measures, in turn, are created by combining the various basic utilities and transportation system data with certain land-use characteristics or with other developability measures. This has also been done with the accessibility and opportunity measures. In addition, several composite variables have been created by combining sewer and transportation measures; such as the number of highway interchanges in a district weighted by the ratio of sewered to total district acreage.

All measures were computed for 1960. In addition, where appropriate, comparable 1970 utilities and transportation measures were computed. Since, however, during model application for a particular forecast interval, land-use and activity levels will be known only for the base year of that interval, 1960 land-use and developability measures were combined with 1970 utilities and transportation measures as well as with 1960 measures.

All measures were then converted to shares, such as the share or fraction of the region's commercial employment in each district, and/or to changes in share between 1960 and 1970. Dependent or output variables in the model are expressed as changes in share, and it is convenient to also express the independent variables as shares or changes in share. During model application, changes in share are estimated for each forecast interval and then automatically converted back to absolute activity levels and scaled to exogenously supplied regional control totals.

Using the data items listed in Appendix A, a total of 490 variables were created comprising a single complete data set to be input to the statistical analyses associated with equation estimation.

Equation Estimation

Equation estimation, in the broad sense, encompassed the following steps:

- 1. The specification, for each equation in the model, of dependent variables or output activities to be allocated; and independent variables which affect the dependent variables and which are input during forecasting, based on hypotheses relating to metropolitan growth as well as on statistical analyses such as bivariate correlation analysis, factor analysis and step-wise regression analysis.
- 2. The estimation of coefficients or parameters for these equations using two-stage least squares, a simultaneous regression technique.
- 3. For selected equation sets, the use of the estimated equations to recreate the calibration interval by projecting activity distributions from 1960 to 1970, and the statistical comparison of these "projections" with the actual 1970 data.
- 4. Evaluation of the estimated equations based on conformance with hypotheses, for example, the logic represented by the signs and magnitudes of the coefficients modifying the different variables. On the statistical fit of the estimated equations with the data as measured by multiple correlations squared (R²) and by standard errors, on the statistical significance of the variables as measured with Student's "t" values, on the randomness of the residuals or error terms for the various districts, and on the ability of the equations to reproduce the calibration interval, 1960 to 1970.
- 5. The reformulation of equations and the repetition of the processes described above until a satisfactory model was obtained, for example, until all evaluation criteria were met and it was felt that further iterations would not significantly improve the model.

These procedures are described more fully below:

Data Analyses. As noted earlier, the household data, by 5-percentile income ranges, were subjected to factor analysis to help define the household variables to be allocated by the model.

These variables were then input to the creation of the full calibration variable set, following which, bivariate correlation analysis was performed. This analysis yielded measures of the correlation between every pair of variables in the data set. It provided indications of which independent variables were likely to impact systematically and significantly on each of the dependent variables. In addition, it indicated which combinations of independent variables might lead to problems of collinearity.

Step-wise regression analysis was also run as an aid to equation formulation. Initially, large subsets of potential independent variables from the calibration data set, including the other dependent variables were specified for each dependent variable; for each of these, in turn, the step-wise procedure selected the single independent variable with which it was most highly correlated, followed by a series of additional variables which at each stage most improved the equation. The independent variables which were selected, the sequence in which they were brought in, and the partial correlation coefficients of the remaining candidate independent variables at each step, were useful for defining trial equation sets to be subjected to simultaneous regression analysis.

Equation Formulation and Estimation. As defined earlier, the model is comprised of a simultaneous set of nine equations which systematically allocate four categories of households and five categories of employment.

Regional totals of these activities for 1960 and 1970, presented in Table 4-1, reveal certain characteristics of growth during this decade. Employment as a whole grew somewhat faster than the population, indicating a higher labor force participation rate and increasing worker immigration from areas outside the study area, such as Lowell and Brockton. The trend towards smaller families was reflected by a slight decrease in average household size. And among the employment categories, manufacturing declined while employment in the other industries grew significantly, especially in the commercial area.

It can also be observed that the employment categories are very uneven in size: "wet" manufacturing employment in 1970 averages just over 600 employees per district, and "very wet" manufacturing employment in 1970 was less than one-third of one percent of the largest category, commercial employment. Because of the tendency of these activities to cluster in relatively large employment concentrations rather than to distribute throughout the region, it was expected that the manufacturing activities would be difficult to model.

TABLE 4-1. REGIONAL ACTIVITY GROWTHS DURING THE CALIBRATION INTERVAL

	1960	1970	Growth (%)
Total population	2,847,943	3,129,228	+9.9
Household population Group quarter population	2,738,727 109,216	3,019,322	+10.2 +0.6
Total households	841,845	948,707	+12.7
Total employment	1,103,675	1,389,380	+25.9
"Dry" manufacturing 'et" manufacturing "very wet" manufacturing	238,942 81,384 3,652	223,649 75,865 2,503	-6.4 -6.8 -31.5
Total manufacturing	323,978	302,017	-6.8
Industrial/nonmanufacturing Commercial	191,487 588,210	237,804 849,559	+24.2 +44.4
Average persons per househol	d 3.25	3.18	-
Jobs per person	0.388	0.444	-

Consequently, consideration was also given to certain alternative approaches, including:

- allocating total employment with the model and then breaking this down to the three required subgroupings using "hand" techniques; or
- allocating "dry" and "wet plus very wet" manufacturing with the model, subdividing the latter grouping by hand; or
- allocating only "dry" manufacturing with the model, and allocating the other two categories by hand.

Because even less statistical reliability could be foreseen with the use of hand techniques, and because model outputs can in any case be constrained in selected districts on the basis of zoning, availability of utilities and urban renewal between specified maximum and/or minimum levels, these alternative approaches were rejected in favor of allocating the three separate types of manufacturing within the basic model if satisfactory equations could be estimated.

The general procedure for formulating, estimating, and evaluating models was as follows. First, a set of equations was structured by defining the dependent and independent variables in each of the nine equations, based on hypotheses relating to metropolitan development as well as on the results of the data analyses. Parameters for these equations were then estimated using the two-stage least squares technique. The resulting output was evaluated on the basis of the logic of both the signs and magnitudes of the coefficients modifying each variable, on the statistical significance of each variable as measured with the Student's "t" value, and on the degree to which each equation was able to fit the data as measured by the standard errors and multiple correlations square (R²). Based on these evaluations, additional sets of equations were formulated in an attempt to improve the model.

Subsequent models at each iteration were built upon earlier models, illogical and statistically nonsignificant variables were deleted, and attempts were made to add additional logical and statistically significant variables while at the same time improving the standard errors and R² values of the equations. In particular, efforts were made to include additional significant policy variables, including transportation and utilities measures. The target for statistical significance of each variable in the model was the 5 percent level, which, for the 125 districts available, corresponded to a Student's "t" value of about 1.98. In addition, it was felt that to be meaningful, all equations should have multiple correlations squared (R²) in excess of at least 0.5, with most of the equations being considerably higher than that.

Many of these criteria were satisfied early in the calibration process. However, certain improvements to the model were still needed: four variables had "t" values below 1.98; the R2 value for the "wet" manufacturing employment equation was only .425; and there were conceptual problems in interpreting a few of the variables. A negative coefficient modifying a transportation variable in the lower middle income household equation, for example, did not seem to conform to the hypotheses. In addition, it was desired that marginal R2 improvements be effected in certain of the other equations, that some additional utilities variables be incorporated, and that the magnitude of certain coefficients in the "dry" and "very wet" manufacturing equations be reduced if Finally, it was desired to reduce data requirements for the forecasting phase by careful definition of the independent variables in the model. For example, model No. 25 had only one "water" variable in the high income households equation and by substituting a "sewer" variable, the requirement for estimating forecast-year acres in each district served by public water was eventually eliminated.

The subsequent models which were estimated, thus represented attempts to effect these improvements. In many instances, the changes between models were marginal, involving only a few variables. Because of the simultaneous nature of the equations, a certain amount of trial and error was needed to ascertain the probable effect of deleting and/or adding particular variables in the various equations; in all, 52 complete models were estimated.

Re-creation of the Calibration Interval. For selected benchmark models, including the final selected model, additional reliability tests were undertaken which involved attempts to recreate the calibration interval. Ideally, it would be desirable to test the calibrated model by using it to recreate an historical time period other than the calibration interval. For example, since the model was calibrated from 1960 to 1970, a test to try to recreate 1960 population and employment distribution based on 1950 data would be desirable. Unfortunately, such an approach would require additional data for another point in time. As these data were not available, the only reasonable test to which the model could be subjected was the recreation of the calibration decate. Accordingly, the following procedures were undertaken for the final selected model, as well as for several earlier versions.

The estimated model was tested on the 1960 data to estimate 1970 employment and households-by-income. The monitoring program was then used to eliminate any negative values contained in these forecasts.

The resulting activity estimates were then input to the reliability testing program in the EMPIRIC package ("RELIAB"). This program produces statistical comparisons of "observed" data with calculated data. The final monitored estimates of both the 1970 values and the 1960-1970 growths of the households-by-income and employment-by-industry categories were thus compared against their observed counterparts. The results of these comparisons, for the final model, are summarized in the following section.

Model Evaluation and Selection. The final calibrated model, No. 52, is summarized in Table 4-2. This model was selected after it was felt that it satisfactorily met the various logical and statistical criteria, and that significant improvements could not readily be achieved by continued model restructuring.

As indicated in Table 4-2, the R² for four of the nine equations is 0.84 or higher; for four of the remaining five, it is above 0.63, and for the ninth, it is 0.51. Furthermore, of the total of 52 dependent and independent variables on the right-hand sides of the equations, all but two are statistically significant at the 5 percent level or better, as measured by Student's "t" values. Thirty-nine of the 52 variables are significant at the 1

TABLE 4-2. SUMMARY OF THE FINAL CALIBRATED MODEL*

-	-								
Multiple correlation squared, (R ²)	.852	.842	.712	•636	949*	.507	e49°	0#8*	•16
Standard error of equation	.0018	.0012	.0020	*005	• 0033	8400.	8600*	6100*	4100°
Public + utilities variables			+.03 (SEWAC# VACAC/USEDAC)		+.11 (SEWAC# EMPAC/USEDAC) +.80A (SEWAC# MFG/MFGAC)	+.08 (SEWAC* WETMFG/TOTEMP)	+,16 (SEWAC* MFG3/MFG)	+.03 (SEWAC* ACTHH)	+.04 (SEWAC* TOTENP/TOTHH +.444(SEWAC* COM/COMAC)
Transporta- tion system variables	+.08 A ACRTH		+.06 NORTCR	+.04 NORTCR +.10A (MIHI/ VACAC)	10 NORT 36A (ACIN1/ DEVAC)				
+ Proximity +	+.12 (ACEMP* USEDAC)	+.02 (ACEMP* VACAC/DEVAC)	06 АСТИН			+.14 (ACTHH* VACAC) 22 (ACCOM* USEDAC)			+.03 (OPTHIO* VACAC/DEVAC)
Develop- + ability variables		10 (TOTHH/ RESAC)		+.14 (HIH/ (TOTHH)	10 (MFGAC/ DEVAC) +.08 (EMPAC* VACAC/DEVAC)	09 (TOTHH/ RESAC)	54 (MFGAC/ DEVAC) +.20 (INMAC/ RESAC)		
. Lagged variables	39 LIH +.31 LMIH	+.07 UMIH	24 LMIH +.16 HIH	+.31 UMIH 47 HIH		07 INH +.23 LIH	32 MFG3 +.42 COM	16 INW +.13 COM	₩ОО 80°-
Other dependent + variables	+.11AHFG1 +.22ACOM	+.35 Д ИМІН	+.24AHIH +.15ACOM	+•63ДИМІН	28лигд2	35ДМРС1		+.78дсом	+.19almih +.33ainm
Primary dependent =	ΔЬΙΉ	АГМІН	AUMIH	АНІН	AMFG1	AMFG2	AMFG3	ΔINM	ФСОМ

*For definition of terms, see pp 4-21,

Description of Terms in Table 4-2

Low income households LIH Lower middle income households LMIH Upper middle income households UMIH High income households HTH "Dry" manufacturing employment MFG1 "Wet" manufacturing employment MFG2 "Very wet" manufacturing employment MFG3 Industrial/nonmanufacturing employment INM Commercial employment COM TOTHH Total households WETMFG Total wet manufacturing employment = MFG2+MFG3 Total manufacturing employment = MFG1+MFG2+MFG3 MFG TOTEMP Total employment Net industrial/manufacturing acres MFGAC INMAC Net industrial/nonmanufacturing acres COMAC Net commercial acres Net employment-intensive acres = MFGAC+INMAC+COMAC **EMPAC** RESAC Net residential acres "Used" acres = EMPAC+RESAC USEDAC VACAC Vacant acres "Developable" acres = USEDAC+VACAC DEVAC ACTHH Accessibility to total households ACCOM Accessibility to commercial employment ACEMP + Accessibility to total employment OPTH10 Total households within 10 miles NORT Number of rapid transit stops NORTCR Number of rapid transit plus commuter rail stops MIHI Miles of highways Total acres within one mile of one or more highway ACINI interchanges Total acres within one-half mile of one or more ACRTH rapid transit stops SEWAC Acres served by public sewer

- Δ Indicates "change-in-share" variables; all others are base-year shares. To conform to data which will be available during model application, the "change-in-share" transportation and utilities variables derive from 1970 transportation and utilities measures combined with 1960 activities and land-use characteristics.
- * Indicates "multiplied by."
- / Indicates "divided by."

percent level, and 45 of the 52, at the 2 percent level. The two variables not meeting the 5-percent criterion are nevertheless significant at the 7 and 8 percent levels, respectively; one of these variables was retained primarily because it provided needed explanation of some of the variance in the dependent variable, "wet" manufacturing, and the other, mostly because it provided logical sensitivity to a desired input policy measure.

As indicated in Table 4-3, the root-mean-square (RMS) errors produced when this model was used to "forecast" the 1970 data were, for 7 of the 9 forecast activities, less than 45 percent of the mean activity level, and for 5 of these activities, less than 30 percent.* In the case of the equations for "wet" manufacturing employment, 65 percent, and "very wet" manufacturing employment 100 percent, the RMS error ratios are higher primarily because of the small numbers of employees in these categories.

The model is felt to reflect a realistic set of relationships, and to be sensitive to appropriate policy inputs. In general, activity growths seem to be most dependent on the growths and prior existence, "lagged" values, of other activities. Growths in commercial employment and in the upper income groups seem, for example, to foster concomitant growths in certain other activities, while the presence in a district of manufacturing activity and the lower income households seems more frequently to be a deterrent to growth. These observations are of course not applicable to all activities; the presence of commercial employment, for example, impacts negatively on growths of this activity, indicating a dispersal tendency, but positively on growth of industrial/nonmanufacturing employment and on two of the four household categories.

"Developability" and/or "proximity", accessibility or opportunity variables are also included in eight of the nine equations, further describing base-year characteristics tending to encourage or discourage growth in the various districts. Unlike the lagged and developability variables, however, the proximity variables reflect the presence of activity beyond the borders of the immediate allocation district.

Transportation variables do not appear very strongly in the model, and in fact do not appear at all in four of the five employment equations. They do make significant contributions to several of the equations, however, particularly to those for high income households and "dry" manufacturing employment, where deletion of

^{*}Statistical theory states that, given a "normal" distribution of observations, the error for two-thirds of those observations will be no more, plus or minus, than the RMS error. The RMS error ratio is computed simply by dividing the RMS error by the observed mean.

the transportation variables from earlier model attempts proved always to have a very detrimental effect on the quality of these equations. The negative sign modifying the highway interchange variable in the "dry" manufacturing equation implies that additional highway interchanges built during a particular interval will have a deterrent effect on the growth of this activity. Much experimentation with this and related variables, however, seemed only to confirm this relationship based on the available The interpretation that has been applied and accepted, thus, is that, since this is a "share" model, "dry" manufacturing is not competing successfully with other activities for locations in districts having new interchanges. Growth of this activity is going elsewhere, and the share of regional "dry" manufacturing employment is declining in those districts in which the interchanges were opened. The absence in the model, too, of greater numbers of transportation variables may be in part attributed to the lack of available network data, especially, inter-district travel times.

TABLE 4-3. COMPARISON OF 1970 "OBSERVED" DATA WITH 1970 "FORECASTS" PREPARED WITH THE CALIBRATED MODEL

	1970 activity levels			1960-1970 growths		
	RMS error	RMS error ratio	R ²	RMS error ratio(1)	R ²	1
LIH LMIH UMIH HIH	250. 554. 539. 524.	.220 .183 .284 .345	.980 .973 .886 .851	1.949 1.621 2.522 3.066	.806 .669 .475 .401	
MFG1 MFG2 MFG3 INM COM	767. 392. 20. 503. 1358.	.429 .646 .996 .265 .200	.951 .902 .951 .993	-6.272 -8.878 -2.169 1.359 0.649	.661 .470 .897 .484 .911	

Description of Terms

LIH = Low income households

LMIH = Lower middle income households

UMIH = Upper middle income households

HIH = High income households

MFG1 = "Dry" manufacturing employment

MFG2 = "Wet" manufacturing employment
MFG3 = "Very wet" manufacturing employment

MFG3 = "Very wet" manufacturing employment
INM = Industrial/nonmanufacturing employment

COM = Commercial employment

^{1.} Since 1960 data are fixed (known), the absolute RMS errors are the same for 1960-1970 changes as for 1970 activity levels.

Finally, "sewer" variables such as acreages served by public sewer play a strong role in the model, appearing in one of the household equations and in all five of the employment equations. In two of the latter, in fact, activity growth is positively influenced by both the existence and the growth of sewered areas in a district. The "change-in-share" sewer variables in both instances are modified by coefficients of higher magnitude than might be desired. For example, they will work toward allocating significant growth during each forecast interval to those districts having large areas which are designated as being sewered during that interval.

In summary, it was felt that the equations selected as representing the final calibrated model, embody high standards of statistical and logical reliability. The regression statistics indicate good fit with the data, the model has been able to reproduce the calibration interval with accuracy, and the relationships embodied in the equations appear to be logical relationships which would be valid in the future. It is felt, therefore, that the model can be used with reasonable confidence to estimate future-year population and employment distributions based on existing activity distributions as well as on those policy inputs embodied in the model and its application.

Data Assembly for Forecasting

Prerequisite to tabulating the data for future years was selection of a plan for regional transportation, public open space, and areas to be served by public sewer.

The work in each area is as follows: First, information on all plans developed to date by others was compiled. Second, these plans and identified common elements and conflicts were reviewed. Third, the possible elements of such plans which should be considered for input to EMPIRIC were reviewed. Fourth, review meetings with MAPC and MDC were held to discuss preliminary selections. Finally, as a result of the meetings, the system intended for use in application of EMPIRIC was selected.

Regional Transportation

The transportation documents and plans prepared by others and reviewed in this study are shown in Appendix B.

Through the review process, the following significant factors evolved which were a major basis of selection of transportation elements to be used for EMPIRIC forecasting.

- 1. Transportation priorities between the present and 1990 within Route 128 will emphasize mass transportation systems, as opposed to highway construction.
 - 2. Previous regional transportation plans were based on significantly higher regional populations than those presently forecast. As an example, the transportation plan of the EMRPP was based on a 1990 high population of 4,010,000 persons for the study area. The selected population projection for 2020 is 4,200,000 and most probable for 2050 is 4,600,000.

The following Highway and Rail Transportation proposals are selected to be used for EMPIRIC forecasting for the MDC Wastewater Study Area.

For 1990

Highway

- 1. Construction of new southwest arterial street in cleared land between Albany Street and Forest Hills.
- 2. Construction of a special purpose third Harbor Tunnel for transit access to Airport.
- 3. Construction of a Peabody-Salem connector, Beverly-Salem Bridge.
- 4. Construction of a Revere Beach connector, plus upgrading of existing Route 1 to noninterstate standards, and related parking to serve Blue Line Rapid Transit.
- 5. Construction of I-95 north from Route 128 in Peabody to Danvers.

Rapid Transit

- 1. Extension of the MBTA Red Line from Quincy to Braintree.
- 2. Extension of the Orange Line from Forest Hills to Route 128 in Needham and to Route 128 in Westwood/Canton.
- 3. Extension of the Red Line from Harvard Square to Alewife.
- 4. Extension of the Orange Line from Malden/Melrose to Reading and to I-93.
- 5. Extention of the Blue Line from Revere to Point of Pines.

For 2020

Highway

- 1. Construction of an arterial street from Forest Hills to Route 128/I-95.
- 2. Construction of a mid-circumferential, a controlled access facility as noted by MAPC's 1990 Controlled Dispersal Development Guide, except that portion between Route 2 south to Route 95.
- 3. Construction of a limited access facility (Route 209) as noted by MAPC's 1990 Controlled Dispersal Development Guide.

Rapid Transit

- 1. Extension of the Red Line from Alewife to Route 128 in Waltham and to Route 128 in Lexington.
- 2. Extension of the Green Line from Lechmere to Winchester.
- 3. Construction of an intown Rapid Transit circumferential network.
- 4. Extension of the Red Line from Braintree to Weymouth.

For 2050

Rapid Transit

- 1. Extension of the Red Line from Braintree to Brockton.
- 2. Extension rail commuter service from Braintree to Plymouth.
- 3. Establishment of a Rapid Transit Line from Natick/
 Framingham (existing rail bed) to Route 128 and make the line express from Route 128 to Boston.
- 4. Extension of the Green Line from Winchester to Route 128 Woburn.

The regional transportation system developing according to the above schedule was the basis for tabulating the transportation data required for EMPIRIC forecasting.

Regional Open Space System

The procedure for developing the elements of a regional open space system for use in application of EMPIRIC was similar to that used in transportation.

The open space reports and plans prepared by others which were reviewed are listed in Appendix C.

The basic policy on open space was to preserve the broadest framework of proposals to date. Therefore, all elements of the plans enumerated in the Appendix were incorporated into the system for use in EMPIRIC. The regional open space system consists of the adopted MAPC open space plan for the 79 municipalities; the open space plan proposals of the other regional planning agencies; the MDC proposal for the Charles to Charles Park; and the proposal of the Corps of Engineers for flood water storage areas in the Charles River Basin.

Sewer Service Areas

The basis for the 1980 and 1990 estimate of acres served by public sewers is the report, Projected Needs and Current Proposals for Water and Sewer Facilities* prepared for MAPC in 1969. For each forecasting interval 1980, 1990,...2050 the acres served by public sewers were calculated as a percentage of total land acres. Land in public open space was excluded from measurements of public sewer service areas. Appendix D shows the percentage acres of land served in each analysis district.

Other Planning Criteria

Household sizes were developed by M&E and MAPC staff for each analysis district by 10-year intervals as shown in Appendix E. Basically household size is expected to decrease to smaller families according to a national trend. Typically, the larger households are found in suburban communities while the older urbanized areas tend toward smaller average households because of the large numbers of apartments.

Densities were developed by M&E and MAPC staff for each analysis district by 10-year intervals as shown in Appendixes F, G, H, and I. Commercial densities, expressed as employees per acre of commercial land, are expected to remain the same or increase slightly in the future while manufacturing and industrial nonmanufacturing densities, expressed as employees per acre of manufacturing and industrial nonmanufacturing land, respectively,

^{*}Projected Needs and Current Proposals for Water and Sewer Facilities, Camp, Dresser and McKee, 1969.

are expected to decline slightly. Household densities, expressed as households per residential acre, are expected to increase in most communities.

Land Area Allocations for local streets and open space were calculated as percentages of residential and nonresidential growth. This is necessary so that, as households and employment are allocated to the various analyses districts with the EMPIRIC model and land is consumed according to the designated densities, an appropriate amount of land is simultaneously consumed for local streets and parks. New patterns of development such as cluster development and industrial parks, are expected to result in smaller percentages of new development areas in streets and higher percentages in local parks. These trends are the basis of the figures presented in Appendixes J and K.

Land Available for Development

Prior to beginning EMPIRIC forecasting an analysis was made of pertinent land use characteristics in the study area. Major aspects of this analysis included a determination of (1) existing vacant land in the study area suitable for development; (2) additional land to be reserved for open space, and (3) land occupied by major institutions. The end product of this analysis was developable land area in acres by analysis district.

Existing Vacant Land Suitable for Development. Existing vacant land suitable for development was determined by updating the 1963 EMRPP land use inventory maps with information obtained from 1970 land use maps prepared by the University of Massachusetts for the New England River Basins Commission, Southeastern New England Project (SENE). The 1963 land use mapping was generalized to show developed or committed land, and three categories of vacant land - Prime I, Prime II, and marginal based upon slope, depth of water table and soil type. As defined in the EMRPP "Comprehensive Land Use Inventory Report"; * Prime I vacant land includes vacant land most suitable for future development; Prime II vacant land includes vacant land that is also high in development potential, but not as desirable as Prime I land because of somewhat less desirable physical characteristics; and marginal vacant land includes vacant land that is relatively unsuitable for future development and, therefore, was withheld from development, where feasible.

For each analysis district the result of this procedure was checked against computer generated estimates of land suitable for development. In each case, based on professional judgment, the most reasonable results were selected.

^{*}Prepared by Vogt, Ivers and Associates for the Commonwealth of Massachusetts Metropolitan Area Planning Council in 1965.

Additional Land Reserved for Open Space. In order to determine land areas to be reserved for open space, a regional open space system was developed from existing plans. This was described previously. In addition to this land, vacant land classified as marginal and not already included in the open space system was reserved for future open space.

Land Occupied by Major Institutions. Basic to the determination of vacant land available for development was the analysis and study of major institutional land holdings.

Major institutions were defined to be those institutions which comprised 5 percent of the land area of a particular analysis district or 5 percent of the population of the analysis district. It was felt that institutions which met either or both of those criteria were institutions which had a significant impact on the community in which they were located. Because, however, this definition excluded some large institutions which had significant land holdings, but due to the size of the community, did not comprise 5 percent of the land area, the definition of major institutions was extended to include those which had 150 acres or more of land.

No existing list of major institutions in the study area by population and/or acreage was available. Therefore, a complete list was developed using the following major sources:

- 1. USGS maps from which institutions with significant land holdings were identified.
- 2. 1970 U. S. Census from which total population living in group quarters was broken down by type of group quarters (i.e. inmate of mental hospital, inmate home for aged, inmate of other institution, in rooming house, in military barracks, in dormitories, or in other group quarters).
- 3. Back-up files for the outdoor recreation and open space Inventory carried out by the Department of Natural Resources in 1970. These files include information concerning the acreage of federal lands owned by the Department of Defense; State lands owned by Mental Health, Public Health, Correction, and the Board of Higher Education; and private nonrecreational land owned by private and religious schools, colleges, and major summaries.
- 4. The State Controller's Office Accounts of Public Property, which lists and describes the acreage of all land owned by State institutions in 1971.

All the above information was developed into a comprehensive list of institutions in the study area by acreage and population. Also, based on total population and/or land areas of each municipality, those institutions comprising 5 percent of the population of the municipality or 5 percent of the land area were identified. In addition, those institutions consisting of 150 acres or more were identified. These then comprised a list of major institutions.

All major institutions were contacted by telephone. Detailed information was obtained as to location, land area, institutional population, employment, and future plans. This information was combined with information obtained from other sources familiar with the operations of these institutions and served as the basis for determining during forecasting intervals whether institutional land would become available for allocation for development purposes. In actual forecasting, we did not use any of this land.

Model Application

The application of the EMPIRIC model was carried out on a "recursive" basis, for 10-year intervals. It was calibrated on the basis of relationships observed during the 1960-1970 decade, and was used to forecast, successively, the decades 1970-1980, 1980-1990, 1990-2000,...,2040-2050. At each target or forecast year, prepatory to proceeding with the forecast for the subsequent decade, the status of the regional population, employment land use was updated, and adjustments made to account for any exogenous policy inputs.

Preliminary Small-Area Allocations

For each decade, the following basic procedures were carried out for the Preliminary Small Area Allocations:

- 1. prelocation of activity;
- computation of variables;
- 3. preparation of forecasts, unconstrained;
- 4. modification of the forecasts;
- 5. estimation of land consumption and total population;
- 6. additional review and modifications.

Activity Prelocation. To account for any explicitly designated major centers such as the Prudential Center and Government Center in Boston, appropriate activity and land use would generally be added to the appropriate district at the beginning of the decade in which the center is built. Alternatively, if it is felt that the center would not impact greatly on other growth until the subsequent decade, it could be "post-located", or added following the forecast of the initial decade.

For this study, no prelocation or postlocation of major centers was performed, as it was felt that no specific committed centers could be identified which were felt to have major impact. However, prelocation of land use such as modification of the land use data prior to forecasting was performed for two purposes:

- 1. Prior to the 1980 forecasts, land in certain districts was deleted from the pool of vacant available land and transfered to a restricted open space category in accordance with current open space plans as described previously.
- 2. Prior to the forecasts for each of the years 1980 through 2050, land in designated districts was deleted from appropriate categories, usually vacant, and added to the "streets and highways" category in accordance with the specified additional miles of major highways to be constructed during each of these decades.

Computation of Variables. The independent variables to be input to the forecasting block of the model were computed on the basis of the activities and land uses for the base year of that interval, the interdistrict distances, and the appropriate policy measures for that interval. The requisite procedures included the calculation of the accessibility and opportunity meaures, the computation of all independent variables for the base year and, where necessary, for the forecast year, and the conversion to the "change in share" format.

Preparation of the Unconstrained Forecasts. The independent variables, along with the model parameters and the regional control totals, were then input to the forecasting block of the model. The set of simultaneous equations was solved for each district in turn, yielding for each, estimates of the changes in share of each of the four categories of households and each of the five categories of employment. These changes in share were then automatically converted to forecast-year absolute activity levels, and scaled to the specified regional control totals.

Review and Preparation of Constraints. Not all policies pertinent to development are explicitly included in the model; the impacts of zoning policies, tax incentive programs, and urban

renewal programs, must be specified exogenously, either in terms of specific adjustments to selected forecasts or in terms of constraints on possible growth. These constraints take the form of minimum and/or maximum values which may be placed on any forecast activity in any district. If not otherwise specified, a minimum activity level of zero is always assumed. Limitations on growths may, for example, reflect limited land availability, current or anticipated zoning regulations, availability of utilities, and other public services, while minimum values may be specified, based on such factors as urban renewal plans, types and ages of buildings, etc.

These constraints were then used to adjust the forecasts. The constraining or adjustment process operates in such a manner that where a constraint is violated, sufficient activity is added to or deleted from that district so that the revised forecast will equal the specified minimum or maximum. After all districts have been checked and, if necessary, adjusted, there may be for each forecast activity a resulting surplus or deficit. This surplus or deficit is then redistributed among the unconstrained districts such that the regional control total is maintained. The redistribution is accomplished in proportion to absolute forecast growths. Thus, the effect is to add or subtract greater amounts of activity to or from those districts exhibiting the greatest changes. Since this redistribution may then cause constraints to be violated in some additional districts, the process is an iterative one of checking constraints, adjusting where necessary, redistributing surpluses or deficits, and checking constraints until a satisfactory equilibrium is reached.

Estimation of Land Consumption and Total Population. Since the model allocates households, total population in each district was estimated following each constrained forecast by multiplying total households by an average persons per household and adding group quarter population. Average persons per household were specified for each district for each forecast year based on the 1960 and 1970 data and on anticipated trends in family size. Group quarter population in each district was assumed constant from 1970 through 2050, based on the balancing factors of relatively slow growth rates and trends toward placing more of these persons in households.

Land use data as well as population and employment data were required for each forecast year, so that following each constrained forecast, growths of the various activities were also used to estimate land consumption. This was accomplished in conjunction with exogenously specified development densities for each district for each forecast interval. The process may be summarized as follows.

- 1. Growths in total households, commercial employment, total manufacturing employment, and industrial/non-manufacturing employment were tabulated. Since employment is defined by industry breakdown rather than by land use, it was assumed that, of the manufacturing and industrial/nonmanufacturing employment in downtown Boston and in Cambridge, 90 percent and 30 percent, respectively, were in fact in office buildings. This employment, for land-consumption purposes, was thus transfered to the commercial category.
- 2. If any of these four growths was negative, existing densities are computed and used to estimate acres "released" or returned to the pool of land available for development or redevelopment.
- 3. Positive growths were divided by the specified densities such as households per net acre or employees per net acre to estimate additional acres of residential, commercial, manufacturing, and industrial/manufacturing lands required.
- 4. Additional acres required for new streets and highway were estimated as proporations of required new acres in each of these four categories: 20 percent was specified for all employment-intensive acreage in all districts, with varying lower figures specified for residential acreage. For negative growths, acres of streets and highways were also released up to a maximum of 20 percent of existing acres in this category.
- 5. Similarly, additional required acres of restricted open space were computed as specified percentages of additional required residential acres. No restricted open space was released if residential activity declined, and none was added as a result of additional employment-intensive activity.
- 6. Total additional required acres for residential, commercial, streets and highways, restricted open space, other uses was then compared with total available acres, vacant acres plus acres released as a result of activity declines. If the former was larger than the latter, an appropriate message was printed giving both of these figures, and all additional acreage requirements were scaled down to the available number of acres. Household and employment growths were not automatically constrained. All growths input to the land consumption estimation process were accommodated, albeit at higher than specified densities in instances where available lands were exhausted.

7. Residential, commercial, manufacturing, industrial/non-manufacturing, and street and highway acres were thus estimated as existing acres plus additional required acres. Restricted open space acres were estimated as existing acres plus additional acres. Vacant acres was computed as a residual.

Additional Review and Modifications. Following completion of the above steps for a given forecast interval, all results were reviewed by MDC, M&E, and PMM&Co. and MAPC staff. Where felt necessary, additional constraints were specified and the forecasts further modified by iterating back through the forecasting, constraining, and land consumption estimating processes. This is described more specifically below.

Preparation of the Small-Area Forecasts

The model and concommitant processes were used to allocate activity based both on a high and a low forecast of regional population and employment. The high and low forecast for each forecast interval were carried out concurrently, except for 1980 and 1990, where the low forecasts slightly lagged the high forecasts in order that the steps comprising the forecasting sequence could be refined early in the process and so that better insights into forecast trends could be obtained prior to specifying constraints.

The 1980 and 1990 Forecasts. Similar procedures were followed for the 1980 and 1990 forecasts. For each of these years, the high and low forecasts were carried out initially with no constraints other than minimum activity levels of zero. Based in part on extensive review of these unconstrained forecasts, the project staff developed constraints for selected activities in selected districts. In particular, many minimum levels were set for the Boston districts, with much higher activity levels being assumed for the high forecast than for the low. These constraints were then used to modify the forecasts, and land consumption was estimated.

The constrained forecasts and resulting land use estimates were then reviewed by project staff. Districts were again noted which appeared to exhibit too much growth, decline, and/or change in income and/or employment composition. Districts were also noted which appeared to be consuming too much land. In particular, those districts which had consumed all vacant land were carefully examined. Based on this review, the constraints were refined, additional constraints added, and a few changed and a revised set of constrained forecasts prepared.

Following the final 1980 forecasts, some changes were made to the 1980 and post-1980 development densities. It was felt that pressures for significant growth being exhibited in certain communities would result in residential development densities

slightly higher than originally estimated on the basis of existing densities and zoning regulations. In addition, industrial densities were revised slightly upwards in some districts. These revised densities were then used to estimate land consumption for the final 1980 and 1990 forecasts.

The Post-1990 Forecasts. Due largely to limited time available to prepare the forecasts, and also to the greater uncertainty associated with forecasts further into the future, the analyses of the post-1990 forecasts was carried out not one decade at a time, but rather, three decades at a time. Specifically, 2020 and 2050 were the two primary post-1990 target years, and for both, three successive 10-year forecasts, 2000, 2010, and 2020; 2030, 2040, and 2050 were carried out prior to review of the results. The same procedures were followed for both the high and low forecasts.

Also, in each case, to prevent unreasonable growths or clines from compounding over the three decades, an initial set of constraints was computed for each forecast year for each district based on the households and employment existing in that district at the base year for that forecast. These initial constraints, including maximum and minimum levels for all activities, were developed jointly by MDC, MAPC, M&E, and PMM&Co. staff based on the regional forecasts as well as 1960-1990 growths. In general, the constraints used through 2020 allowed for considerable growth and decline. For the 2030 through 2050 forecasts, based on the 2000-2020 results, and on somewhat slightly smaller regional population growth, the constraints were made somewhat more restrictive.

The two sets of constraints are presented in Table 4-4. Constraints for "very wet" manufacturing employment are not included, as constraints for this very unique and regionwide very small activity were specified rather than computed: this activity was totally excluded every where except in Walpole and in several districts within the City of Boston.

The 2000, 2010, and 2020 forecasts were thus carried out, first, using only these computed constraints, following which project staff reviewed all three forecast years and set revised constraints for selected activities in selected districts for the year 2020. Corresponding constraints were interpolated for 2000 and 2010, and the forecasts for the three years were revised accordingly, starting from the 1990 base year and superseding any computed constraints with the revised constraints, where specified.

This process was then repeated one more time for the 2000-2020 forecasts, with the constraints being further refined. In addition, average persons per household were examined and, where felt appropriate, revised at this point in an effort to bring

TABLE 4-4. TEN-YEAR PERCENTAGE CONSTRAINTS, FORECAST YEARS 2000-2050

	Four household categories (each)	Dry & wet manufacturing employment (each)	Industrial/ non-mfg. employment	Commercial employment
First 5000 total households or first 500 employees in each employment category, thru 2020: maximum % growth maximum % decline thru 2050:	125 25	200 50	300	400
maximum % growth maximum % decline	75	100	150	200
Next 7500 total households or next 4500 employees, thru 2020: maximum % growth maximum % decline	50	75	150	200
maximum % growth maximum % decline	35	30	75	100
Additional households or employees, thru 2020: maximum % growth maximum % decline thru 2050:	25 15	25 30	20	100
maximum % growth maximum % decline	25 15	25 20	25 15	50

the population forecasts closer to the regional control totals. The model allocates and adheres to controls for regional households rather than regional population. Preparatory to running the allocation model, the regional population forecasts, prepared with the aid of a cohort-survival model, were thus converted to households based on an estimated average regional household size.

The Results

The complete history and EMPIRIC activity allocations and land use from 1960 to 2050 is in Appendix L.

CHAPTER 5

SELECTION OF PREFERRED PLAN

Analysis of Alternatives

With each forecast interval, an analysis of the high and low alternatives of each analysis district was carried out by M&E, MDC, MAPC, and PMM staff as described in Chapter 4. With the completion of the high and low forecasts to 2050, a check on the range and rates of change over the 80 years was made to ensure overall reasonableness and compatibility with the MAPC regional goals.

Tables 5-1 and 5-2 show comparisons of population forecasts for 1990 and 2020.

The differences with other forecasts which were noted are of two types.

- 1. The model tended to forecast extensive declines in certain core area communities. Therefore, additional constraints were applied to districts including Lynn, Brookline, Chelsea, Everett, Somerville, and sections of Boston at the same time, the model tended to forecast extremely high growths in several communities which have historically maintained considerably slower growth rates due to restrictive land use policies. Therefore, for these communities, most notably Dover, Lincoln, Wayland, Weston, Wellesley, Duxbury, Manchester, and Ipswich additional constraints were specified.
- 2. Certain differences were noted with forecasts prepared by other regional planning agencies. However, although we differed with (CMRPC) Central Massachusetts Regional Planning Commission most significantly on the forecast for Berlin, CMRPC stated that they have no regional development plans linked to their forecast and, therefore, expressed no objection to our projection for Berlin. The only significant difference with the Northern Middlesex Area Commission forecasts is with the town of Westford. We feel our figures are more realistic because M&E prepared the master plan for Westford and has extensive local knowledge of the town.

Additional analysis of the region was made by aggregating small area forecasts into rings, differentiating between the core, inner suburban and outer suburban areas, and sectors based on transportation corridors as shown on Figures 5-1 and 5-2. These summaries also appeared reasonable and generally consistent with MAPC policy.

TABLE 5-1. POPULATION COMPARISON 1990

	M&E h1gh	M&E	Planning Col	Commission high	BTPR	State	
UOT ACTON	7.39	5.67	5.80	7.60		4.22	
	35	00	3,00	-6	56.000	71	
m	4,88	3,90	6,10	8,30	•	0,35	
	7,95	7.50	0,00	1.70	.60	6.79	
005 Bedford	8,21	8.71	1,80	3,10	21,000	9,13	
006 Bellingham	,01	,36	0,70	2,40		,97	
7	29,452	28,629	7,	0	33,000	25,396	
0	5,66	.39				2,66	
6	,84	1,03	57,200	57,800	5,00	,37	
	0,62	,73	4		49,000	5,62	
011 Bolton	4,88	4,53	4.60	4,60		,32	
Boston*	00,	00,	585,600	626,900	541,000	00,	
-	,56	5,04	90	,10		4,13	
13	8,51	7,96		000		,18	
14	3,82	1,90	7,200	48,60	00	7,92	
015 Brookline (D)	,72	,14	54,900	56,900		44	
16 Brookline (2,09	1,12					
17	2,13	44,0	2,90	6,40	9,00	70	
18	5,30	3,59	2,8	9,1	8,00	99,6	
19	0,01	8,16	,20	740	33,000	5,71	
2	1,92	1,10			5,80	6,64	
N	0,88	8,98	7	9		,51	
N	2.74	3.07	3,800	24,80	25,000	3,10	
23	1,30	0,68	3,10	3,40	15	8,30	
54	4,73	3,60	25,100	25,900	1,	22,177	
	4,37	2,91	0,70	1,20		00,	

*For Boston neighborhoods, see page I-5.
SUBTOTAL
*1965-70.

TABLE 5-1 (Continued). POPULATION COMPARISON 1990

State	7,62	60,00	6,67	2018 2018 2018	0 4 6 0 0 4 6 0 0 0 4 0 0	48,101 101,001 101,001 101,001 101,001	3,72
BTPR	32,000	5,200 41,500 72,000	33,000	17,500	15,400 50,000	87, 400 16,000 49,000 28,000	15,500
	9,30	W. C.	44400 4400 600 600 600	22 4 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	004, 004,	86,600 46,600 30,300 30,300	82,90
MAP	8,00	0001 0001	600,000,000,000,000,000,000,000,000,000	111,700 13,700 13,700 13,800	7,000 2,000	85,600 47,800 38,100	6,50
9/20 M&E low	6,26	4,75°	, 600 a =	, 600, 600, 600, 600, 600, 600, 600, 60	1,29 2,40 1,29 2,40	20 02 02 02 02 02 02 02 02 02 02 02 02 0	5,72
9/20 M&E h1gh	,56	2,00,00	, 84, 87, 84, 84, 84, 84, 84, 84, 84, 84, 84, 84	0,000,000,000,000,000,000,000,000,000,	9,02	86,493 15,049 53,337 20,933 36,175	1,48
PMM town codes	Dedham Dover Duxbury	Essex Everett Framingham	Gloucester Hamilton Hanover	Hingham Holbrook Holliston Hopkinton Hudson	Ipswich Lexington Lincoln Littleton	Lynn Lynnfleld Malden Manchester Marblehead Marlborough	Marshfield Maynard Medfield
MDC -	000	0000	0000	200000	5555	0 0 0 0 0 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0	000

TABLE 5-1 (Continued). POPULATION COMPARISON 1990

316 312 312 312 312 313 313 313 313 313 313	25,000 26,067 27,000 28,300	65,200			
	0 0 0 0 0 0 0 0 0 0	3,90	66,700	67,000	57,845
-		2000	200,70	200	20,0
,	04000000000000000000000000000000000000	8.10	8,20	10	4,65
1004000000000 1000400000000 40000000000	88 + 85 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.50	5,80	A	5.74
7,04,000,000,00,00,00,00,00,00,00,00,00,0	200 4 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,60	3,00	1	7,92
040000000 004000000 40000000	48,37,66	6,00	7,10	•	4,37
40000000 04000040 0000000	4,26 8,77				Ch
0000000 4000000 600000	2,27	7,90	8,00	5,90	4,28
00000 00000 00000 00000	8,27	35,100	37,900	37,000	32,499
0,08,00	000	5,40	6,30	8,00	97 7
0,000,000	, 20	2,90	4,20	5,00	2,73
8,0°0,0°0,0°0,0°0,0°0,0°0,0°0,0°0,0°0,0°	0,84				
5,46	8,26	0,10		-	7,19
5,07	4,64	22,100	54,80	N/A	20,892
	4,11	14,		-	4,03
1,59	1,00	8,20	06,0	N/A	3,26
6,67	5,27	7,80	8,40	00	10,0
7,18	4,96	0,80	3,20	2,90	6,76
3,66	3,06	7,50	9,20	N/A	2,48
2,23	0,26	6,50	7,80	2,00	5,58
5,46	1,79	1,00	3,30	,50	3,63
0,22	8,70	3,40	5,50	5,00	1,03
6,51	5,21	5,90	7,30	9	1,85
8,90	8,11	5,20	7,40	Y.	8,98
9,35	8,81	1,10	1,70	8,00	6,79
07,6	8,62	8,70	9,30	•	1,67
9,92	8,71	26,100	26,500	4,00	2,42
1,48	0,75	3,60	8,20	-	0,65

TABLE 5-1 (Continued). POPULATION COMPARISON 1990

State	00 00 00 00 00 00 00 00 00 00 00 00 00	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
BTPR	000,000 000,000 000,000 000,000 000,000	26,000 26,000 35,000 81,000 81,000 82,000 50,500 N/A
	38, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30	00
MAPC		23,400 31,500 31,500 31,500 62,300 22,300 22,300 22,300 20,000
9/20 M&E low	7.00011080808018 4.001.084.0800014 7.001.0010010	323,0 323,0 323,0 323,0 103,0
9/20 M&E h1gh	8 - 0 2 4 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8838 823,383 823,50 104,20 104,20 105,00
PMM town codes	Sharon Sherborn Somerville Southborough Stoneham Stow Stow Sudbury Swampscott Tewksbury Topsfield Wakefield	Waltham Watertown Wayland Wellesley Wenham Westborough Westford Weston Weston Westwood Weymouth Wilmington Winchester Winthrop
MDC -		011000000000000000000000000000000000000

SUBTOTAL

TABLE 5-2. POPULATION COMPARISON 2020

Regional Planning Commission 6/6/73	4,600 by CMRPC 48,900 by NMRPC 588,000 by BEA 11,000 MURPC
State	22 32 32 32 32 32 32 32 32 32 32 32 32 3
M&E low	000 000 000 000 000 000 000 000 000 00
M&E most probable	1 1020 1
M&E h1gh	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
PMM town codes	Acton Arlington Ashland Avon Bedford Bellingham Bellingham Bellingham Bellingham Bellingham Bellingham Bellingham Boston* Boston* Boston* Boston* Boston (D) Braintree Brookline (N) Braintree Cambridge Canton Cambridge Canton Canton Carlisle Chelmsford Chelmsford Chelmsford Chelmsford Chelsea
MDC -	00000000000000000000000000000000000000

*For Boston neighborhoods, see page J-5.

SUBTOTAL

TABLE 5-2 (Continued). POPULATION COMPARISON 2020

Regional Planning Commission 6/6/73	A STANDARD TO THE STANDARD TO
State	24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
M&E low	212 212 213 214 215 215 215 215 215 215 215 215
M&E most probable	22 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
M&E h1gh	2011188244282222222222222222222222222222
PMM town codes	Dedham Dover Duxbury Essex Everett Framingham Framilion Hamilton Hamilton Hanover Hingham Holbrook Holliston Hull Ipswich Lexington Lincoln Littleton Lincoln Littleton Lincoln Marblehead Marblehead Marblehead Marblehead Marblehead Marblehead Marblehead
MDC -	######################################

TABLE 5-2 (Continued). POPULATION COMPARISON 2020

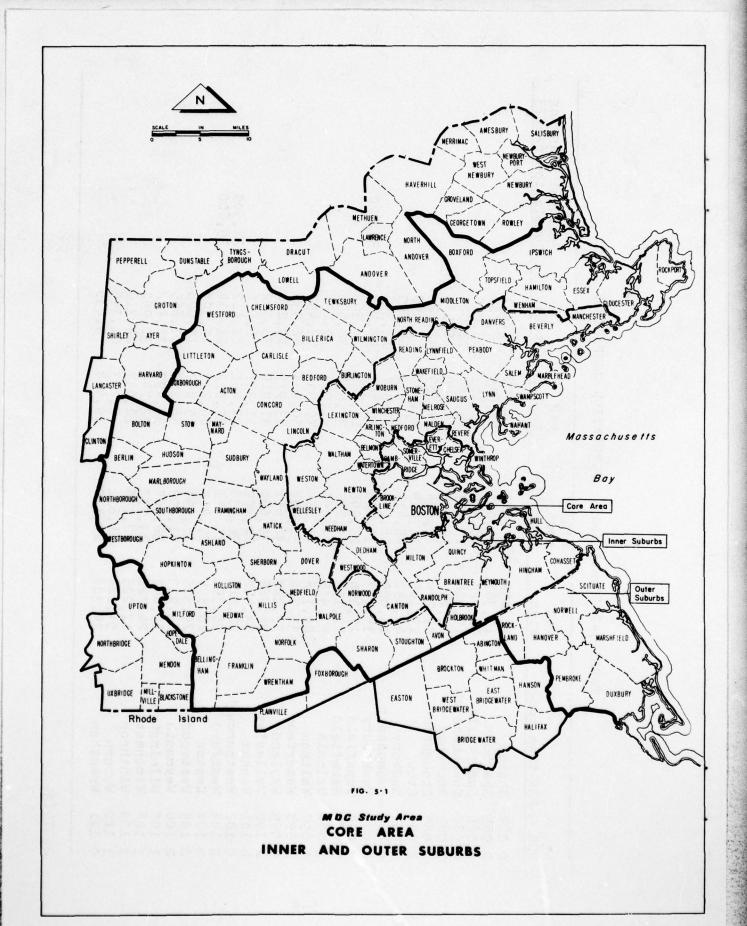
Regional Planning Commission 6/6/73	19,900
State	400 00 00 00 00 00 00 00 00 00 00 00 00
M&E	22 31 2 32 32 32 32 32 32 32 32 32 32 32 32 3
M&E most probable	223311 43311 105 31 65 53 53 53 53 53 53 53 53 53 53 53 53 53
M&E h1gh	6 1 2 2 2 4 4 2 2 2 2 1 1 2 2 2 2 2 2 2 2
PMM town codes	Medford Medway Melrose Middleton Milford Millis Milton (D) Milton (N) Nahant Natick Needham Newton (D) Norfolk North Reading Northborough Norwood Peabody Peabody Peabody Peabody Randolph Reading Revere Quincy Randolph Reading Revere Salem Salem Salem
MDC -	321000112000000000000000000000000000000

*Listed as 561

SUBTOTAL

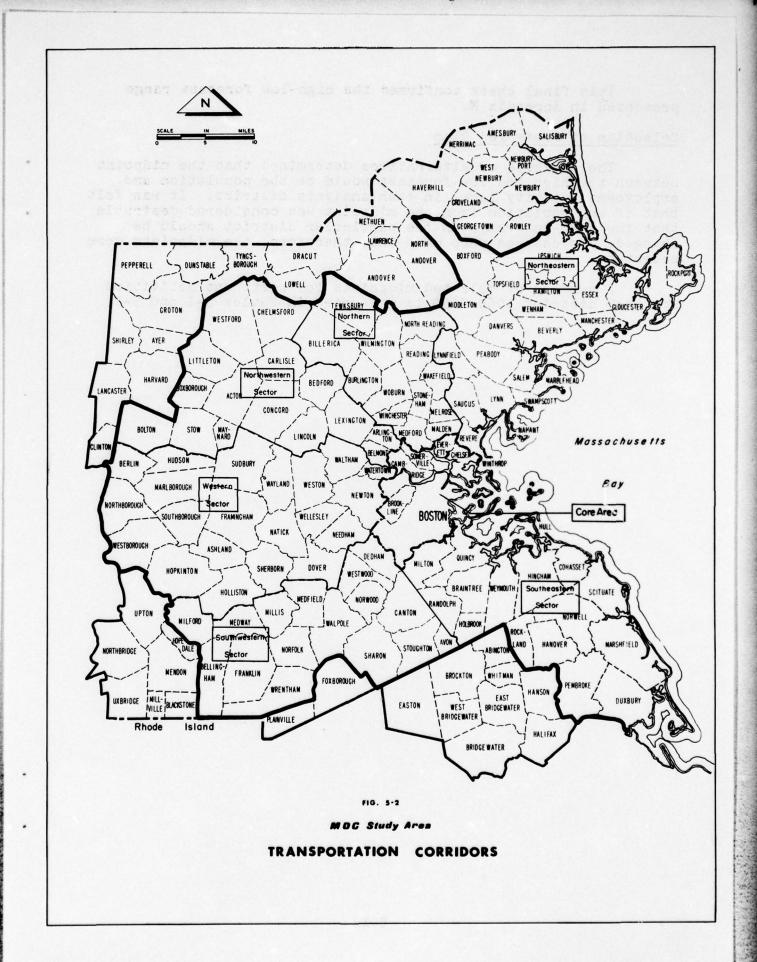
TABLE 5-2 (Continued). POPULATION COMPARISON 2020

0.89 Sherborn 15,367 14,021 24,970 17,461 086 Sherborn 15,367 14,021 12,675 6,762 087 Sourghorough 19,086 17,377 15,657 11,006 10.88 Stoneham 20,269 19,985 19,759 15,228 10,006 10.88 Stoneham 14,229 11,994 19,770 26,563 15,422 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10,700 10.81 11,872 10.81	MDC -	PMM town codes	M&E h1gh	M&E most probable	M&E low	State	Regional Planning Commission 6/6/73
085 Sherborn 15,367 14,021 12,675 6,762 086 Somerville 72,028 68,590 65,153 105,260 088 Stoneham 20,269 19,985 15,667 11,006 089 Stoneham 44,229 19,086 11,377 15,667 11,006 20,269 10,833 7,549 12,228 099 10,833 7,549 12,228 12,412 12,422 12,422 12,422 13,165 11,999 10,833 7,549 12,228 13,165 11,999 10,833 7,549 12,228 13,142 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 12,422 10,000 Wartertown 31,150 32,651 33,002 31,012 35,902 11,337 6,676 10,000 Wellesley 34,368 32,690 31,012 35,902 11,3482 12,403 11,337 22,412 26,229 17,507 105 Westwood 29,335 27,591 22,412 26,229 17,507 106 Westwood 29,335 27,591 22,422 17,507 106 Westwood 29,335 27,591 22,422 17,507 106 Westwood 29,335 27,591 22,442 31,422 100 Winthrop 24,225 12,136 12,047 24,318 110 Woburn 54,128 51,631 110 Woburn 54,128 51,631 110 Woburn 54,128 51,631 11,913 61,302 22,110 19,918 9,635	0 084	Sharon	9,45	7.21	4.97	7.46	
086 Somerville 72,028 68,590 65,153 105,260 087 Sout#Gorough 19,086 17,377 15,667 11,006 088 Stoneham 40,269 41,985 11,998 10,833 759 42,228 099 Stoughton 44,229 41,994 39,759 42,528 099 Stoughton 13,165 11,999 10,833 7,549 42,228 091 Sudbury 48,952 44,2 41,940 10,833 7,549 10,833 7,540 13,398 14,360 18,158 11,397 13,398 17,360 18,158 11,399 11,376 13,398 11,370 19,399 11,370 13,398 11,370 19,399 11,370 19,399 11,370 19,399 12,409 100 Wellesley 13,482 12,409 11,337 6,676 100 Westford 28,214 26,338 24,461 22,412 26,676 100 Westford 28,595 27,591 22,412 26,229 17,507 105 Westwood 63,913 61,103 12,447 24,318 100 Winchester 24,726 23,737 22,748 30,346 100 Winchester 24,302 22,110 19,918 9,635 11,000 Winthrop 54,128 51,631 19,918 9,635		Sherborn	5,36	4,02	2,67	6,76	
087 SoutMoorough 19,086 17,377 15,667 11,006 088 Stoneham 20,269 19,985 19,700 26,563 089 Stouchton 44,229 11,994 39,759 42,228 090 Stow 18,165 11,994 10,872 29,569 090 Stow 18,165 11,999 10,872 29,569 092 Swampscott 19,009 18,158 17,307 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 13,398 7 14,625 8,365 095 Walpole 47,178 14,625 114,625 8,363 100 Wellesley 10,768 11,37 6,676 10,999 Wayland 11,150 30,607 30,604 42,939 099 Wayland 11,37 6,676 11,337 6,676 11,337 6,676 1103 Westporough 28,391 25,631 22,912 21,834 35,902 11,837 22,912 21,834 35,903 106 Weymouth 63,913 61,103 58,292 77,507 10,000 Willington 28,726 23,7412 25,847 17,098 11,837 65,531 10,000 Willington 24,726 23,737 22,7412 26,229 17,507 10,000 Willington 24,726 23,737 22,7412 26,329 17,507 11,000 Willington 24,726 23,737 22,7412 26,339 11,422 11,000 Willington 24,726 23,737 22,7412 26,339 11,422 11,000 Willington 24,726 23,737 22,7412 11,000 Willington 24,726 23,737 22,7413 30,952 11,000 Willington 24,726 23,737 22,7413 30,953 11,000 Willin		Somerville	2,02	8,59	5,15	05,26	
088 Stoneham 20,269 19,985 19,700 26,563 089 Stoughton 14,229 11,994 10,833 7,59		Southborough	9,08	7,37	5,66	11,00	
089 Stoughton 44,229 41,994 39,759 42,228 090 Stow 13,165 11,999 10,833 7,549 091 Stow 092 Swampscott 19,009 18,158 17,307 13,398 093 Tewksbury 18,969 18,158 17,307 13,398 17,140 17,307 13,398 17,309 18,177 39 17,307 13,398 17,140 17,307 13,398 17,140 17,307 13,398 17,140 17,307 13,398 17,140 17,307 13,398 17,140 17,307 13,398 17,140 17,307 13,309 19,296 10,299 10,299 10,299 10,299 10,299 10,299 10,299 10,299 10,299 10,299 10,299 10,299 10,296 10,299 10,299 10,296 10,299 10		Stoneham	0,26	9,98	9,70	6,56	
090 Stow 091 Sudbury 092 Swampscott 093 Sudbury 093 Sudbury 094 Waspired 095 Swampscott 096 Sudbury 097 Sudbury 098 I8,158 097 I7,307 098 Waspired 096 Walpole 097 Watertown 098 Watertown 099 Watertown 099 Waspand 099 Waspand 099 Waspired 090 Watertown 090 Watertown 090 Watertown 090 Waspired 090 Waspired 090 Waspired 090 Watertown 090 Waspired 090 Watertown 090 Waspired 090 Waspired 090 Waspired 090 Watertown 090 Watertown 090 Watertown 090 Waspired 090 Wa	_	Stoughton	4,22	1,99	9,75	2,22	
091 Sudbury 092 Swampscott 092 Swampscott 19,009 18,158 093 Tewksbury 38,143 36,005 33,866 43,177 39 094 Topsfield 17,366 15,995 14,625 8,363 095 Walpole 097 Walpole 097 Waltham 099 Wayland 099 Wayl		Stow	3,16	1,99	0,83	,54	
092 Swampscott 19,009 18,158 17,307 13,398 093 Tewksbury 38,143 36,005 33,866 43,177 39		Sudbury	8,95	5,41	1,87	9.56	
093 Tewksbury 094 Topsfield 095 Wakefield 095 Wakefield 095 Wakefield 096 Walpole 096 Walpole 097 Waltham 097 Watertown 098 Watertown 099 Wayland 099 Wayland 099 Wayland 090 Wayland 000		Swampscott	9,00	8,15	7,30	3,39	
094 Topsfield 17,366 15,995 14,625 8,363 095 Wakefield 42,158 39,887 37,616 30,598 095 Walpole 47,978 44,666 41,354 30,742 097 Waltham 89,768 84,884 79,999 78,493 098 Watertown 31,150 30,607 30,064 42,939 099 Wayland 39,322 36,651 33,979 19,296 100 Wellesley 13,482 12,409 11,337 6,676 102 Westborough 28,214 26,338 24,461 22,412 28,104 Weston 28,595 27,412 26,229 17,507 105 Westwood 29,335 27,591 25,691 27,507 107 Wilmington 39,443 36,967 34,492 31,422 109 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,302 22,110 19,918 9,635 111 Wrentham 24,302 22,110 19,918 9,635		Tewksbury	8,14	6,00	3,86	3,17	39,600
095 Wakefield 42,158 39,887 37,616 30,598 096 Walpole 47,978 44,666 41,354 30,742 097 Waltham 89,768 84,884 79,999 78,493 098 Watertown 31,150 30,607 30,064 42,939 099 Wayland 39,322 36,651 33,979 19,296 100 Wellesley 13,482 12,409 11,337 6,676 102 Westborough 28,214 26,338 24,461 22,412 28,50 104 Weston 28,391 25,651 22,912 21,834 35,80 105 Westwood 29,335 27,591 25,631 25,847 17,098 107 Wilmington 39,443 36,967 34,492 31,422 10,00 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,302 22,110 19,918 9,635		Topsfield	7,36	5,99	4,62	8,36	
096 Walpole 47,978 44,666 41,354 30,742 097 Waltham 89,768 84,884 79,999 78,493 098 Watertown 31,150 30,607 30,064 42,939 099 78,493 099 Wayland 39,322 36,651 33,979 19,296 100 Wellesley 34,368 32,690 31,012 35,902 101 Wenham 28,214 26,338 24,461 22,412 28,50 104 Weston 28,391 25,651 22,912 21,834 35,80 106 Westwood 29,335 27,412 26,229 17,507 106 Weymouth 63,913 61,103 58,292 73,665 10,00 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,302 22,110 19,918 9,635 111 Wrentham 24,302 22,110 19,918 9,635		Wakefield	2,15	9,88	7,61	0,59	
097 Waltham 89,768 84,884 79,999 78,493 098 Watertown 31,150 30,607 30,064 42,939 099 Wayland 39,322 36,651 33,979 19,296 100 Wellesley 13,482 12,409 11,337 6,676 102 Westborough 28,214 26,338 24,461 22,412 28,501 103 Westford 28,591 25,651 22,912 21,834 35,80 106 Weymouth 28,595 27,412 26,229 17,507 107 Wilmington 39,443 36,967 34,492 108 Winchester 12,225 12,136 110 Woburn 24,302 22,110 19,918 9,635		Walpole	7,97	99,4	1,35	0,74	
098 Watertown 31,150 30,607 30,064 42,939 099 Wayland 39,322 36,651 33,979 19,296 100 Wellesley 34,368 32,690 31,012 35,902 101 Wenham 28,214 26,338 24,461 22,412 28,50 103 Weston 28,391 25,651 22,912 21,834 35,80 104 Weston 28,595 27,591 25,847 17,098 107 Wilmington 29,335 27,591 25,847 17,098 107 Wilmington 39,443 36,967 34,492 31,422 108 Winchester 24,726 23,737 22,748 30,952 109 Winthrop 54,128 51,631 49,133 61,346 110 Woburn 24,302 22,110 19,918 9,635		Waltham	9,76	4,88	6,99	8,49	
099 Wayland 39,322 36,651 33,979 19,296 100 Wellesley 34,368 32,690 31,012 35,902 101 Wenham 13,482 12,409 11,337 6,676 28,50 102 Westborough 28,214 26,338 24,461 22,412 28,50 103 Weston 28,595 27,412 26,229 17,507 27,412 26,229 17,507 105 Westwood 29,335 27,591 25,847 17,098 107 Wilmington 39,443 36,967 34,492 31,422 107 Wilmington 24,726 23,737 22,748 30,952 109 Winthrop 54,128 51,631 49,133 61,346 111 Wrentham 24,302 22,110 19,918 9,635		Watertown	1,15	09,0	90,0	2,93	
100 Wellesley 34,368 32,690 31,012 35,902 101 Wenham 13,482 12,409 11,337 6,676 56,676 102 Westborough 28,214 26,338 24,461 22,412 28,50 103 Westford 28,391 25,651 22,912 21,834 35,80 104 Weston 28,595 27,412 26,229 17,507 105 Westwood 29,335 27,591 25,847 17,098 106 Weymouth 63,913 61,103 58,292 73,665 107 Wilmington 39,443 36,967 34,492 31,422 108 Winchester 24,726 23,737 22,748 30,952 109 Winthrop 12,225 12,136 49,133 61,346 110 Woburn 24,302 22,110 19,918 9,635		Wayland	9,32	6,65	3,97	9,29	
101 Wenham 13,482 12,409 11,337 6,676 102 Westborough 28,214 26,338 24,461 22,412 28,50 103 Westford 28,391 25,651 22,912 21,834 35,80 104 Weston 28,595 27,412 26,229 17,507 105 Westwood 29,335 27,591 25,847 17,098 106 Weymouth 63,913 61,103 58,292 73,665 107 Wilmington 39,443 36,967 34,492 31,422 108 Winchester 24,726 23,737 22,748 30,952 109 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,302 22,110 19,918 9,635		Wellesley	4,36	2,69	1,01	5,90	
102 Westborough 28,214 26,338 24,461 22,412 28,50 103 Westford 28,391 25,651 22,912 21,834 35,80 104 Weston 28,595 27,412 26,229 17,507 105 Westwood 29,335 27,591 25,847 17,098 106 Weymouth 63,913 61,103 58,292 73,665 107 Wilmington 39,443 36,967 34,492 31,422 108 Winchester 24,726 23,737 22,748 30,952 109 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,302 22,110 19,918 9,635		Wenham	3,48	2,40	1,33	6,67	
103 Westford 28,391 25,651 22,912 21,834 35,80 104 Weston 28,595 27,412 26,229 17,507 17,098 105 Westwood 29,335 27,591 25,847 17,098 106 Weymouth 63,913 61,103 58,292 73,665 107 Wilmington 39,443 36,967 34,492 31,422 109 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,302 22,110 19,918 9,635		Westborough	8,21	6,33	94,46	2,41	8,50
104 Weston 28,595 27,412 26,229 17,507 105 Westwood 29,335 27,591 25,847 17,098 106 Weymouth 63,913 61,103 58,292 73,665 107 Wilmington 39,443 36,967 34,492 31,422 108 Winchester 24,726 23,737 22,748 30,952 109 Winthrop 12,225 12,136 12,047 24,318 110 Woburn 24,128 51,631 49,133 61,346 111 Wrentham 24,302 22,110 19,918 9,635		Westford	8,39	5,65	2,91	1,83	5,80
105 Westwood 29,335 27,591 25,847 17,09 106 Weymouth 63,913 61,103 58,292 73,66 107 Wilmington 39,443 36,967 34,492 31,42 108 Winchester 24,726 23,737 22,748 30,95 109 Winthrop 12,225 12,136 12,047 24,31 110 Woburn 24,302 22,110 19,918 9,63		Weston	8,59	7,41	6,22	7,50	
106 Weymouth 63,913 61,103 58,292 73,66 107 Wilmington 39,443 36,967 34,492 31,42 108 Winchester 24,726 23,737 22,748 30,95 109 Winthrop 12,225 12,136 12,047 24,31 110 Woburn 54,128 51,631 49,133 61,34 111 Wrentham 24,302 22,110 19,918 9,63		Westwood	9,33	7,59	5,84	7,09	
107 Wilmington 39,443 36,967 34,492 31,42 108 Winchester 24,726 23,737 22,748 30,95 109 Winthrop 12,225 12,136 12,047 24,31 110 Woburn 54,128 51,631 49,133 61,34 111 Wrentham 24,302 22,110 19,918 9,63		Weymouth	3,91	1,10	8,29	3,66	
108 Winchester 24,726 23,737 22,748 30,95 109 Winthrop 12,225 12,136 12,047 24,31 110 Woburn 54,128 51,631 49,133 61,34 111 Wrentham 24,302 22,110 19,918 9,63		Wilmington	77,6	96,9	4,49	1,42	
109 Winthrop 12,225 12,136 12,047 24,31 110 Woburn 54,128 51,631 49,133 61,34 111 Wrentham 24,302 22,110 19,918 9,63		Winchester	4,72	3,73	2,74	0,95	
110 Woburn 54,128 51,631 49,133 61,34 111 Wrentham 24,302 22,110 19,918 9,63		Winthrop	2,22	2,13	2,04	4,31	
111 Wrentham 24,302 22,110 19,918 9,63		Woburn	4,12	1,63	9,13	1,34	
		Wrentham	4,30	2,11	9,91	,63	



APPENDIXES

METCALF AND EDDY INC BOSTON MASS F/G 13/2 WASTEWATER ENGINEERING AND MANAGEMENT PLAN FOR BOSTON HARBOR-EA--ETC(U) OCT 75 AD-A036 793 UNCLASSIFIED NL



This final check confirmed the high-low forecast range presented in Appendix M.

Selection of Preferred Plan

The analysis of alternatives determined that the midpoint between the high and low forecast would be the population and employment activity level in each analysis district. It was felt that if any variation from the midpoint was considered desirable that the high-low range in the particular district should be changed. No changes were made and; therefore, the midpoints were selected.

A summary of selected midpoints for pertinent activities for each district 1960-2050 is presented in Tables 5-1 and 5-2.

APPENDIX A CALIBRATION VARIABLES

The second secon

APPENDIX A

CALIBRATION VARIABLES

- ACRES SERVEC BY PLBLIC WATER ACRES SERVEC BY PUBLIC SEWER MILES OF PRIMARY (LIMITED-/CCESS, NON-INTERSTATE) ROADS MILES CF INTERSTATE HIGHWAYS MILES OF PRIMARY PLUS INTERSTATE HIGHWAYS MILES OF RAPID TRANSIT RIGHTS-OF-WAY 7 MILES OF COMMUTER RAIL RIGHTS-OF-WAY MILES OF RAPID TRANSIT PLUS COMMUTER RAIL RIGHTS-CF-WAY 8 9 (BLANK) NUMBER OF FULL HIGHWAY INTERCHANGES 10 11 NUMBER OF PARTIAL HIGHWAY INTERCHANGES 12 NUMBER OF FULL PLUS PARTIAL HIGHWAY INTERCHANGES (INTERCHANGES INFLY ACCESS TO LOCAL STREETS). MILES FRUM CENTER OF POPULATION TO NEAREST HIGHWAY INTERCHANGE 13 NUMBER OF HIGHWAY RAMPS (I.E., TO/FROM LOCAL-ACCESS STREETS) 14 TOTAL ACRES WITHIN 2 MILES OF HIGHWAY INTERCHANGE 15 TOTAL ACRES WITHIN 1 MILE OF HIGHWAY INTERCHANGE 16 TOTAL ACRES WITHIN 1/2 MILE OF HIGHWAY INTERCHANGE 17 TOTAL ACRES WITHIN 1/2 MILE OF RAPID TRANSIT STATION 18 (TOTAL ACRES EXCLUDES WATER AREA IN ITEMS 15-19). 'CRY' MANUFACTURING (II) EMPLOYMENT (STANCARD INCUSTRIAL CLASSIFICATION CODES 19,205,21,227,228,23,24,25, 27,301,302,31(EXCEPT 311),32(EXCEPT 324 AND 329),332 334,339, 34(EXCEPT 347), 35, 36, 37(EXCEPT 372 AND 373), 38, 39(EXCEPT 394)) 20 "WET" MANUFACTURING (12) EMPLOYMENT ISIC 201EXCEPT 205 AND 206),221EXCEPT 227 ANC 2281,264,265,266,267, 28,29(EXCEPT 291),30(EXCEPT 301 AND 302),311,324,329,331,335,336,347, 372.373.3541 21 *WET * MANUFACTURING (13) EMPLOYMENT (SIC 206,261,262,263,291) 22 TOTAL MANUFACTURING EMPLOYMENT 23 INDUSTRIAL (NON-MANUFACTURING) EMPLOYMENT (SIC 01-17, 40-50) 24 COMMERCIAL (INCLUCING GOVERNMENT) EMPLOYMENT (SIC 52-94) TOTAL EMPLOYMENT 26 TOTAL POPULATION POPULATION IN GROUP CUARTERS 28 TOTAL HOUSEFELDS
- 32 INDUSTRIAL (NCN-MANUFACTURING) ACRES 33 EXTENSIVE INDUSTRIAL ACRES

COMMERCIAL (INCLUDING INTENSIVE INSTITUTIONAL) ACRES

RESIDENTIAL ACRES

29

30

31

- ACRES OF STREETS AND HIGHWAYS (INCLUDING MAJOR PARKIN) FACILITIES)
- EXTENSIVE INSTITUTIONAL ACRES

INDUSTRIAL (MANUFACTURING) ACRES

ACRES OF RESTRICTED OPEN SPACE (E.G., RECREATIONAL) 36 37 38 VACANT ACRES TOTAL ACRES LOW INCOME HOUSEHOLDS (0-15 PERCENTILE) 39 40 LOTER MIDDLE INCOME HOUSEHOLDS (15-55 PERCENTILE) 41 LOW PLUS LOWER MIDDLE INCOME HOUSEHOLDS 42 UPPER MIDDLE INCOME HOUSEHOLDS (55-80 PERCENTILE) HIGH INCOME HOUSEHOLDS (80-100 PERCENTILE) 43 44 UPPER MIDDLE PLUS FIGH INCOME HOUSEHOLDS 45 NUMBER OF COMMUTER RAIL STOPS NUMBER OF RAPID TRANSIT STOPS 47 NUMBER OF COMMUTER RAIL PLUS RAPID TRANSIT STOPS NUMBER OF RAPID TRANSIT STOPS WITHIN 1 MILE OF DISTRICT CENTROID

TOTAL AREST AND ALVES TO ALVER THE STATE OF A STATE ARE SEED AT STATE OF A STATE ARE SEED AS A STATE ARE SEED AS A STATE ARE SEED ARE SEED ARE SEED ARE SEED ARE SEED ARE SEED AND A STATE ARE SEED AND SEED ARE SEED AS A STATE ARE SEED AND SEED AS A STATE ARE SEED AND SEED AS A STATE ARE SEED AS A STATE AS A STATE ARE SEED AS A STATE AS A STATE ARE SEED AS A STATE AS A STATE

APPENDIX B TRANSPORTATION REPORTS AND PLANS

APPENDIX

TRINSPORTATION REPORTS AND PLANS

The transportation documents and plans prepared by others and reviewed by us are as follows:

1. Boston Transportation Planning Review

Alan M. Voorhees and Associates, Inc., 1971-73.

Core Area Reports

- a. Third harbor crossing report
- b. Central artery
- c. Circumferential transit

North Shore Area Reports

- a. I-95 relocated summary
- b. North Shore report (I-95 north and I-95 relocated)

Northwest Area Reports

a. Northwest summary

Southwest Area Reports

- a. Southwest corridor report
- b. Southwest summary

Regional Reports

- a. Commuter rail improvement program
- b. Regional framework
- c. Regional systems
- 2. Governor's Policy Statement, November 30, 1972
- 3. Transit Study for the MBTA, Thomas K. Dyer, Inc.

4. MBTA Reports

- a. Program for mass transportation, August, 1966.
- b. Staff supplement report to report above.
- c. Funds for transit, December 1970.
- Report on alternative programs for suburban commuter service, January 1969.

5. Eastern Massachusetts Regional Planning Project

- a. Recommended highway and transit plan, October 1968.
- b. Guides for progress, 1968.

6. MAPC

- a. Control dispersal development guide, 1990
- b. Composite development guide, 1990
- 7. Joint Regional Transportation Committee Statement on Transportation Flan

APPENDIX COPEN SPACE REPORTS AND PLANS

APPENDIX C OPEN SPACE REPORTS AND PLANS

1. MAPC Reports

Open space and recreation program for Metropolitan Boston.

Comparative subregional forecast statistics for four alternative physical Metropolitan Development Plans, December 1966.

1990 Composite Development Guide: 1990 Control Dispersal Development Guide.

2. Corps of Engineers Report

Charles River Watershed Study, April 1972.

3. Open Space Study

Central Merrimack Valley Regional Planning District, September 1970.

4. Open Space Plan

Old Colony Planning Ccuncil, June 1972.

5. Regional Open Space and Recreation Plan

Central Massachusetts Regional Planning Commission, April 1972.

6. Outdoor Recreation Plan

State Department of Natural Resources, January 1973.

7. Open Space Recreation Plan Summary

Northern Middlesex Area Commission, September 1970.

8. Metropolitan District Commission

MDC Parklands and Recreation Facilities Map.

9. BRA-Boston Redevelopment Authority

MEMO's

Public Open Space in the City of Boston, December 1967

An update of the above memo.

Maps

Charles to Charles Corridor, including Olmstead Park.

Summary - Open Space Proposals

10. Master Plans

Community

Littleton - Blair Associates

Carlisle - Allen Benjamin

Bolton - Thomas Associates

C-1

APPENDIX D

PERCENTAGE OF LAND SERVED BY PUBLIC SEWER

APPENDIX D PERCENTAGE OF LAND SERVED BY PUBLIC SEWER

		AVALLA	THE PERSON WITH				1970 Developable
1	NDC - PMM TOWN CODES	1970	1990	2020	2050	Total Acres	Acres (Used Acres
100	Acton	0	65	100	100	12,998	10,993
200	Arlington	100	1,00	טטנ	100	3,571	2,286
003	Ashland	3	70	100	100	8,294	6,661
30	Avon	0	70	. 100	100	.2,880	1,970,
	Bedford	38	70	100	. 100	8,864	4,778
900	Bellingham	0	30	75	100	12,070	6,185
200	Belmont	100	100,	100	100	2,982	. 2,141
800	Berlin	0	25	70	100	8,435	1,772
600	Beverly	36	76	100	100	9,830	7,386
010	Billerica	2	50	100	100	16,614	13,615
110	Bolton	0	0	50	001.	12,794	11,716
	Boston*						
510	Boaborough.	ç	20	50	טטו	6,656	5,868
013	Boxford		0	50	100	15,610	13,025
014	Braintree	93	95	100	100	9,222	6,202
015	Brookline (D)	100	100	100	100	1,091	776
910	Brookline (N)	100	100	100	100	3,274	. 2,478
710	Burlington	25	100	100	100	7,603	5,766
018	Cambridge	100	100	100	100	4,570	2,589
019	Canton	27	75	100	100	. 12,403	8,287
020	Carlisle	0				9,882	8,687
021	Chelmsford	3	35	100	100	14,694	11,478
922	Chelsea	100	100	100	. 100	1,389	998
:::	Cunassei		13	83	α ;	A . M . M .	4,256
11211	Concord	. 9	20	80	100	16,492	13,379
3 225						. 636 6	733 3

AVAILABILITY OF PUBLIC SEWERS MDC - PMM	1970	2 Hg	2020	2050	Total	1970 Developable Acres (Used Acres and Vacant Acres)
Dedham	80	100	100	100	906*9	4,352
Dover	0	0			9,798	9.062
Duxbury	0	0			15,686	11,777
Essex	0	20	70	100	9,203	5,593
Everett	100	100	100	100	2,400	1,365
Frantneham	8.2	96	100	100	17,453	13,506
Franklin	6	22	80	100	17,280	928.9
Gloucester	6	25 , .	80	100	16,928	,12,225
Hamilton	0	15	70	100	9,594	7,289
Hanover	0	100	100	100	10,003	8,293
Hingham	13	50	85	85	14,458	7,479
Holbrook	0	70	100	100	4,685	3,821
Holliston	0	25	80	100	12,224	9,885
Hopkinton	0	40	80	100	17,869	5,968
Hudson	99	. 78	100	100	7,558	6,375
Hull	37	90	90	06	: 1,619	972
Ipswich	2	22	50	70	21,344	10,494
Lexington	74	. 06	100	100	10,643	. 8,510
Lincoln	2	2			6,549	8,018
Littleton	0	18	80	100	11,098	8,847
Lynn	90	96	06	06	7,174	3,872
Lynnfleld	0	25	. 100	100	6,714	4,299
Malden	100	100	100	. 100	3,283	2.178
Manchester	14	42	100	. 100	4,941	3,978
Marblehead	96	100	100	100	2,829	1,815
Marlborough	22	. 48	100	100	14,106	11,773
Marshfleld	1	. 28	80	100	18,253	12,782
Maynard	36	. 50	80	100	3,424	2,623
Medfield		55	100	100	9,293	7,092

31	NDC - PMM	200	3 of 5-220	. 050	0603.	Acres	and Vacant Acres
1 055	Medford	85	85	85	RS	2,606	2,764
0 056	Medway	2	35	90	100	7,462	6,494
057	Melrose	96	100	100	100	3,072	1,787
0 058	Middleton	0	15	7.0	100	4,424	6,692
059	Milford	32	35	100	100	9,594	4,246
090	Millis	9	55	100	100	7,846	6,320
190	Milton (D)	100	100	100	100	422	340
2 062	Milton (N)	26	65 .	65	. 65	8,026	4,388
0 063	Nahant	100	100	100	100	678	. 431
2 064	Natick	36	70	100	100	10,234	7,534
990	Needham	89	78	100	100	8,160	5,695
990	Newton (D)	100	100	100	100	4,106	2,629
190	Newton (N)	100	100	100	100	7,625	5,294
890	Norfolk	0	0			9,824	8,464
690	North Reading	٥	50	100	100	8,659	848
070	Northborough	0	45	100	100	11,981	10,329
170	Norwell	0	0			13,651	9,433
072	Norwood	100	100	100	100	6,778	4,381
073	Peabody	34	92	100	100	10,758	7,588
074	Pembroke	0	20	50	100	14,886	. 11,474
075	Quincy	17	75	. 22	. 75	10,650	. 4,875
2 076	Randolph	37	90	100	100	6,605	3,839
770	Reading	34	75	100	100	6,304	3,934
820	Revere	80	80	80	80	4,045	1,990
620	Rockland	22	90	100	100	6,470	4,217
080	Rockport	11	65	100	100	4,531	3,601
0 081	Salem	54	75	80	80	5,235	2,300
082	Sauges	30	. 70	70	70	7,411	4,098
0 082							

AVAILAI RUBE IC	AVAILABILITY OF PUBLIC PARKERS	1970	1990	2020	2050	Total	1970 Developable Acres (Used Acres and Vacant Acres)
0 084	Sharon	0	20	, 8	100	15,558	12,819
0 085	Sherborn	0	0			9,850	8,356
1 086	Somerville	100	100	100	100	2,637	1,691
0 087	Southborough	0	30	ממנ	100	9,003	8,550
1 088	Stoneham	55	61	61	61	4,262	2,277
2 089	Stoughton	28	. 22	100	100	10,490	. 8,412
060 0	Stow	0	0			11,482	8,127
0 091	Sudbury	0	35	90	90	15,680	12,304
0 092	Swampscott	85	100	100	100	1,984	1,316
0 093	Tewksbury	٥	. 60	100	100	13,382	10,415
0 094	Topsfield	0	.12	70	100	8,230	5,878
1 095	Wakefleld	95	100	100	100	5,050	3,455
2 096	Walpole	12	. 65	100	100	13,498	11,145
1 097	Waltham	95	100	100	100	8,653	5,451
1 098	Watertown	700	100	700	100	5,669	1,570
0 099	Wayland	0	65	100	100	10,163	7,674
2 100	Wellesley	85	100	100	100	6,726	4,901
0 101	Wenham	0	0			5,254	3,305
0 102	Westborough	7	55	100	100	13,766	10,956
0 103	Westford	0	10	100	100	19,840	16,613
0 104	Weston	0	55	. 100	100	11,110	8,431
2 105	Westwood	22	92	100	100	7,194	5,142
2 106	Weymouth	96	96	100	100	11,341	7,439
1 107	Wilmington	2	65	100	100	10,957	8,796
1 108	Winchester	100	100	100	100	4,019	2,442
1 109	Winthrop	100	100	100	100	1,043	527
1 110	Woburn	45	100	100	100	8,390	5,800
0 111	Wrentham	. 0	22	80	100	14,515	12,657

	AVAI	AVAILABILITY OF PUBLIC SEWERS Rocton Neighborhoods	1970	1990	2020	2050	Total Acres	1970 Developable Acres (Used Acres and Vacant Acres)
_	1		90.	001	3 90 -	95	2,099	992
		Brighton	100	100	100	100	2,887	1,797
	1 1 1	Charlestown				100	1,071	618
	11.5	Dorchester (D)	ı	100		100	4,296	2,519
07		Dorchester (N)	50	50	50	50 -	1,387	533
	1117	East Boston	100	100	100	100	3,689	1,230
		Fenway - Jamaica (D)	100	100	100	100	1,944	1,118
02	2 119	Fenway - Jamaica (N)	09	09	60	09	625 ,	353
	2 120	Hyde Park	80	80	80	80	1,940	1,300
	2 121	Mattapan	100	100	100	300	1,076	765
S	2 122	Roslindale	90	90	90	90	1,732	1,058
	1 123	Roxbury	100	100	100	100	1,139	466
	1 124	South Boston	100	100	100	100	15,333	1,302
	2 125	West Roxbury	100	100	100	100	2,400	1,462
	SUBTOTAL	AL.						
	TOTAL							
	S - at	- at least 10 percent of land area is restricted open space.	nd area 1s	restricted	open space			

MDC SEWAGE FLOW CODES

(D) Deer Island
(N) Nut Island
0 Sewage Flow Not Presently in MDC System
1 Sewage Flow to Deer Island
2 Sewage Flow to Nut Island

APPENDIX E
PERSONS PER HOUSEHOLD

APPENDIX E PERSONS PER HOUSEHOLD

District	1980	1990	2000	2010	2020	2030	2040	20
0001	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3
1002	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2
2003	3.6	3.5	3.5	3.4	3.4	3.3	3.3	1
0004	3.6	3.0	3.0	3.5	3.4	3.3	3.3	3
1005	3.8	3.8	3.7	3.7	3.7	3.7	3.6	
0006	3.9	3.8	3.8	3.8	3.7	3.7	3.6	
1007	3.0	3.0	3.0	2.9	2.9	2.9	2.9	- 2
0008	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3
0019	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3
0010	3.8	3.7	3.6	3.6	3.5	3.4	3.3	
0011	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3
0012	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
0013	3.9	3.8	3.8	3.8	3.7	3.7	3.6	3
2014	3.6	3.5	3.5	3.4	3.4	3.3	3.3	
1015	7.5	2.5	2.5	2.5	2.5	2.5	2.5	2
2016	2.5	2.5	2.5	2.5	2.5	7.5	2.5	2
1017	4.1	4.0	3.8	3.7	3.6	3.5	3.3	1
1018	2.4	2.4	2.4	2.4	2.4	7.4	2.4	2
2019	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3
0020	3.7	3.7	37.	3.6	3.6	3.6	3.6	3
0021	3.6	3.6	3.5	3.5	3.4	7.3	3.3	3
1022	2.9	2.9	2.8	7.8	2.8	2.8	2.7	7
0023	3.3	3.3	3.3	3.2	3.7	3.2	3.2	3
00.24	3.5	3.5	3.5	3.5	3.5	7.5	3.5	3
0025	3.4	3.4	3.3	3.3	3.3	3.3	3.2	3
2026	3.5	3.4	3.4	3.4	3.3	3.3	3.2	3
0027	3.5	3.5	3.5	3.4	3.4	3.4	3.4	
0028	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3
0029	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3
1030	3.1	3.0	3.0	2.9	2.9	2.8	2.9	2
2031	3.7	3.1	3.1	3.1	3.0	3.0	2.9	
0032	3.9	3.8	3.8	3.8	3.7	3.7	3.6	3
0033	3.0	3.0	3.0	3.0	3.0	3.C	3.0	3
0034	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3
0035	3.9	3.8	3.8	3.8	3.7	3.7	3.6	3
2036	3.6	3.5	3.5	3.4	3.4	3.3	3.3	3
2037	3.6	3.6	3.5	3.5	3.4	3.3	3.3	3
2037	3.8	3.8	3.7	3.7	3.7	3.7	3.6	3
0039	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3
0040	3.6	3.5	3.5	3.4	3.4	3.3	3.3	3
0041	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3
0042	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3
1043	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1
0044	3.8	3.8	3.7	3.7	3.7	3.7	3.6	3
0045	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3
0046	2.9	2.9	2.9	2.9	2.9	2.9	2.9	ž
0047	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3
1048	2.9	2.9	2.9	2.9	2.9	7.9	2.9	2
0049	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3
0050	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2
0051	3.3	3.3	3.3	3.2	3.2	3.2	3.2	:
0052	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3
0053	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3
0054	3.8	3.6	3.7	3.7	3.7	3.7	3.6	3
1055	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2
0056	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3
1057	3.3	3.2	3.2	3.1	3.1	3.0	3.0	i
0058	3.7	3.7	3.7	3.6	3.6	3.6	3.6	;
0059	3.0	3.0	3.0	3.0	3.0	3.0	3.0	i
0060	3.7	3.7	3.7	3.6	3.6	3.6	3.6	•

District	1980	1990	2000	2010	2020	2030	2040	2050
1061	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
2167	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
0063	3.2	3.2	3.2	2-2	3.2	3.2	3.2	3.2
2064	3.4	3.4	3.3	3.2	3.1	3.0	3.0	2.9
2065	3.3	3.3	3 • 2	3.2	3.1	3.0	3.0	2.9
1066	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9
2067	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9
90069	3.6	3.6	3.6 3.6	3.6	3.6	3.6	3.6	3.6
0069	3.7	3.7	3.7	3.6	3.6	3.6	3.3	3.2
0071	3.8	3.8	3.7	3.7	3.7	3.7	3.6	3.6
2072	3.3	3.2	3.2	3.1	3.1	3.C	3.0	2.9
0073	3.4	3.4	3.3	3.3	3.3	3.3	3.2	3.2
0074	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6
2075	3.0	3.0	3.0	2.9	. 2.9	2.9	2.9	2.9
2076	3.6	3.6	3.5	3.5	3.4	3.3	3.3	3.2
1077	3.4	34.	3.3	3.2	3.1	3.0	3.0	2.9
1070	3.1	3.1 3.6	3.0	3.0 3.5	3.0	3.0	2.9	2.9
0080	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.2
2081	2.9	2.9	2.8	2.8	2.8	2.9	2.7	2.7
2082	3.5	3.4	3.4	3.4	3.3	3.3	3.2	3.2
0083	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
0084	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9
0085	3.8	3.8	3.7	3.7	3.7	3.7	3.6	3.6
1086	3.0	2.9	2.9	2.9	2.8	2.8	7.7	2.7
0087	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6
1088	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9
2089	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
0090 0091	3.6	3.6	3.0	3.0	3.6	3.6	3.6	3.6
0022	3.1	3.1	3.0	3.	3.0	3.0	2.9	2.9
2093	4.0	4.0	3.9	3.9	3.8	3.7	3.7	3.6
0094	3.9	3.8	3.8	3.8	3.7	3.7	3.6	3.6
1095	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9
2096	3.6	3.6	3.5	3.5	3.4	3.3	3.3	3.2
1097	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9
1079	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2.7
2033	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6
2100	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9 3.5
2121	3.5	3.5	3.5	3.5	3.5	3.5 3.0	3.5	3.0
2102	3.0	3.0 3.7	3.7	3.6	3.0	3.6	3.6	3.6
0103	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2105	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2105	3.4	3.4	3.3	3.2	3.1	3.C	3.0	2.9
1107	3.8	3.7	3.7	3.6	3.5	3.4	3.3	3.2
11 12	3.3	3.3	3.2	3.2	3.1	3.0	3.0	2.9 .
1109	3.1	3.0	3.0	2.9	2.9	7.8	7 . 8	2.7
1110	3.4	3.4	3.3	3.2	3.1	3.C 3.4	3.0	2.9
0111	3.4	3.4	3.4	3.4	3.4	2.1	3.4 2.1	3.4
1112	2.1	2.1	2.1	2.1	2.1	2.6	7.6	2.6
1113	3.1	3.0	- 3.0	2.9	2.9	2.8	7.8	2.7
1115	3.7	3.2	3.1	3.0	2.9	2.8	2.8	2.7
2116	3.2	3.2	3.1	3.0	2.9	2.8	2.8	2.7
1117	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
1110	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2.7
2119	3.1	3.1	3.0	3.0	2.9	2.8	2.8	2.7
2120	3.1	3.1	3.0	3.0	2.9	2.8	2.6	2.7
2171	3.1	3.1	3.0	3.0	2.9	2.6	2.8	2.7
2122	3.1	3.1	3.0	3.0	2.9	7.8	2.7	2.7
11??	2.7	2.7	7,7	2.7	2.7	2.7	2.7	2.7
11/4	3.1	3.0	3.0	2.9	2.9	7.8	2.8	2.7
1119	,	3.0		and the same of th				

APPENDIX F

COMMERCIAL DENSITY (EMPLOYEES PER ACRE)

APPENDIX F
COMMERCIAL DENSITY
(Employees per Acre)

District	1970	1980	1990	2000	2010	2020	2030	2040	2050
0001 1002 2003	4. 30.	30.	30.	8. 30.	30.	30.	8. 30.	Same as 2030	Same as 2030
0074	9.	6.		8.		8.	8.		
1005	5.	6.	7.	7.	8.	8.	9.		
0006	3.	8.	9.	10.	10.	10.	10.		
1007	12.	12.	12.	12.	. 12.	12.	14.		
0008	2.	6.	13.	13.	13.	13.	13.		
0010	13.	13.	9.	8,	8.	7.	7.		
0011	1.	8.		6.	8.	8.	8.		
C-12	3.		8.	8.	8.	8.	8.		
0113	8.	5.	8.	8.	8.	8.	8.		
2014	.15.	15.	15.	16.	17.	15.	19.		
1015	64.	64.	64.	64.	64.	64.	64.		
2016	11.	15.	18.	20.	20.	20.	20.		
1017	66.	20. 66.	68.	68.	69.	69.	70.		
2019	7.	7.	7.	7.	8.	8.	9.		
0020	15.	14.	14.	13.	13.	12.	12.		
0021	7.	7.	8.	8.	9.	9.	10.		
1027	48.	48.	48.	48.	48.	48.	48.		
0023	6.	6.	7.		9.	10.	13.		3-1
0124	8.	7.	7.	8.	8.	9.	9.		
2026	9.	9.	9.	9.	9.	10.	10.		
0027	2.	7.	7.	8.	10.	10.	10.		
ucsa	1.	7.	7.	8.	10.	10.	10.		
0029	8.	8.	8.	8.	8.	8.	8.		
1030	44.	44.	. 44.	44.	44.	44.	44.		
2031	10.	10.	10.	10.	10.	10.	7.		
0032	13.	12.	12.	11.	11.	10.	10.		
0034	1.	7.	7.	7.	8.	8.	9.		
0035	3.	7.	7.	8.	8.	9.	9.		
2036	5.	6.	6.	7.	7.		8.		
2017	7.	7.	7.	7.	7.	7.	7.		
00 14	4.	7.	7.	8.	6.	9.	9.		
0019	6.	7.	7.	8.		9.	9.		
0041	7.	7:	6.	8.	9.	9.	10.		
0042	1.	7.	7.	8.		9.	9.		
1043	7.	7.	6.	8.	9.	9.	10.		
0044	5.	7.	7.	8.	8.	9.	7.		
0045	3.	7.	7.	8.	8.	9.	9.		
0046	44.	44.	44.	44.	44.	44.	44.		
0047 1048	12.	12.	12.	12.	12.	12.	12.		
0049	7.	7.	7.	7.	7.	38.	7.		
0050	14.	14.	14.	14.	14.	14.	14.		
0051	6.	7.	7.	8.		9.	9.		
0052	3.	7.	7.	8.	8.	9.	9.		
00%3	13.	13.	13.	13.	13.	13.	13.		
0054	4.	7.	7.	8.	8.	9.	9.		
1055	28.	26.	28.	8.	28.	30.	30.		
1057	23.	23.	25.	25.	28.	28.	28.		
0058	5.	7.	7.	8.	8.	9.	9.		
0059	12.	12.	12.	12.	12.	12.	12.		
חמים	5.	7.	7.	A.	8.	9.	9.		

District	1970	1980	1990	2000	2010	2020	2030	2040	2050
1051 2062 0053 2064	11. 6. 4. 19.	11. 7. 7. 18.	10. 7. 7. 18.	10. 7. 8. 17.	9. 7. 9.	9. 7. 9. 16.	10. 7. 9. 17.	Same as 2030	Same as 2030
-2055 -1056 -2057 	15. 16. 16.	14. 16. 16. 7.	14. 17. 17. 7.	14. 17. 17. 7.	14. 18. 28.	18.	14. 19. 19.		
0059 0070 0071	4. 3. 2.	?: ?:	7.		8.	8. 9. 9.	8. 9. 9.		
2072 0073 0074	17. 21. 3.	16. 20. 7.	16. 20. 8.	16. 19. 9.	16. 19. 10.	16. 18. 10.	16. 19. 10.		
2075 2076 1077 1078	37. R. R. 23.	37. 6. 10. 24.	37. 9. 12. 25.	37. 9. 14. 25.	37. 10. 14. 25.	37. 10. 14. 25.	37. 10. 16. 25.		
0079 00°0 0001	12. 10. 29.	12. 10. 29.	12. 10. 29.	12 · 10 · 29 ·	12. 10. 29.	12. 10. 29.	12. 10. 29.		
0083 0084 0085	20. 6. 3. 1.	20. 8. 7. 7.	20. 9. 7. 7.	20. 10. 8.	20. 10. 6.	20. 10. 9.	20. 10. 9.		
1086 0087 1048	1.	42. 7. 10.	42. 7. 10.	43. 8. 10.	43. 6. 12.	44. 9. 12.	44. 9. 14.		
2049 0090 0091 0092	10. 4. 3. 20.	9. 7. 7. 19.	9. 7. 7. 19.	9. 8. 18.	9. 8. 8.	9. 9.	9. 9.		
0093 0094 1095	2. 3. 23.	7.	7. 7. 23.	8. 8. 23.	8. 8. 23.	17. 9. 9.	18. 9. 9.		
2096 1077 1079	6. 15. 23.	7. 14. 23.	7. 14. 22.	8. 13. 22.	6. 13. 20.	9. 20. 20.	9. 20. 19.		
0099 2100 0101 0102	5 • 7 • 2 • 2 •	7. 7. 7.	7. 7. 7.	8. 7. 8.	8. 7. 8.	9. 7. 9.	9. 8. 9.		
0103 0104 2105	3. 5. 9.	7. 7. 9.	7. 7. 9.	8.	8. 8. 10.	9. 9. 10.	9. 9. 11.		
2106 1107 1108 1109	12. 23. 25. 10.	12. 23. 25. 10.	12. 23. 25. 10.	12. 23. 25.	12. 23. 25. 10.	15. 23. 25.	15. 23. 25.		
1110 0111 1112	15. 3. 498.	15. 7. 498.	15. 7. 498.	15.	15. 8. 498.	10. 15. 9. 498.	10. 15. 9. 498.		
1113 1114 1115 2116	15. 27. 21.	17. 27. 21.	20. 27. 21.	22. 27. 21. 15.	24. 27. 21.	26. 27. 21.	28. 27. 21.		7 x 37 2000 x
1117 1118 2119	28. 16.	78. 16. 5.	78. 16. 6.	28. 16. 7.	16. 28. 16.	17. 28. 16.	18. 28. 16. 10.		
2120 2121 2122 1123	10. 12. 19.	10. 17. 19. 12.	10. 12. 19.	10. 12. 19.	10. 12. 19.	10. 12. 19.	10. 12. 19.		
1124	170.	120.	120.	120.	120.	120.	120.		

APPENDIX G

MANUFACTURING DENSITY (EMPLOYEES PER ACRE)

APPENDIX G
MANUFACTURING DENSITY
(Employees per Acre)

ana i	l small	400						J#15	are a
District	1970	1980	1990	2000	2010	2020	2030	2040	2050
0001	••			104				105	
0001	20.	28.	28.	28.	28.	28.	28.	Same as	
1005	42.	30.	30.	30.	30.	30.	30.	2030	2030
2003	63.	30.	30.	30.	30.	30.	30.		
	53.	30.	30.	30.	30.	30.	30.		
1005	198.	50.	50.	50.	50.	50.	50.		
0006	100.	30.	30.	30.	30.	30.	30.		
1007		30.	30.	30.	. 30.	30.	30.		
8000	3.	30.	30.	30.	30.	30.	30.		
9009	44.	44.	44.	44.	44.	44.	44.		
0010	11.	30.	30.	30.	30.	30.	30.		
0012	0.	27.	41.	41.	41.	41.	41.		
0013	0.		22.	22.	22.	22.	22.		
2014	39.	39.	39.	22.	22.	22.	39.		
1015	267.	60.	60.	39.	39.	39.	60.		
2016	33.	33.	33.	60.	60.	60.			
1017	21.	37.	30.	33.	33.	33.	33.		
1018	118.	50.	50.	30. 50.	30.	30.	30.		
2019	17.	30.	30.	30.	50.	50.	50.		
0050	10.				30.	30.	30.		
0021	33.	30	30.	30.	30.	30 •	30.		
1022	23.	23.	23.	33.	33. 23.	33.	33. 23.		
0023	6.	30.	30.	23.		23.			
0024	26.	30.	30.	30.	30. 30.	30.	30.		
00.25	21.	30.	30.	30.	30.	30.	30.		
5056	25.	25.	25.	25.	.25.	25.	25.		THE STATE OF THE S
0027	0.	30.	30.	30.	30.	30.	30.		
0028	0.	30.	30.	30.	30.	30.	30.		
0029	36.	30.	30.	30.	30.	30.	30.		
1030	20.	20.	50.	20.	20.	20.	20.		
2031	50.	30.	30.	30.	30.	30.	30.		
0032	10.	30.	30.	30.	30.	30.	30.		
0033	24.	24.	24.	24.	24.	24.	24.		
0034	0.	30.	30.	30.	30.	30.	30.		1001
0035	4.	30.	30.	30.	30.	30.	30.		
2036	18.	30.	30.	30.	30.	30.	30.		
2037	50.	30.	30.	30.	30.	30.	30.		
0039	5.	30.	30.	30.	30.	30.	30.		
0040	24.	24.	24.	24.	24.	24.	24.		
0041	0.	30.	30.	30.	30.	30.	30.		
0042	18.	30.	30.	30.	30.	30.	30.		10.15
1043	27.	27.	27.	27.	27.	27.	27.		1011
0044	1.	30.	30.	30.	30.	30.	30.		
0045	16.	30.	10.	30.	30.	30.	30.		
0046	103.	50.	50.	50.	50.	50.	50.		
0047	2.	30.	30.	30.	30.	30.	30.		
1048	75.	50.	50.	50.	50.	50.	50.		
0049	8.	30.	30.	30.	30.	30.	30.		4114
0050	13.	30.	30.	30.	30.	30.	30.		
0051	46.	30.	30.	30.	30.	30.	30.		
0052	9.	30.	30.	30.	30.	30.	30.		
0053	146.	50.	50.	50.	50.	50.	50.		
0054	57.	30.	30.	30.	30.	30.	30.		* (1)
1055	47.	35.	35.	35.	35.	35.	35.	4	
0056	20.	30.	30.	30.	30.	30.	30.		
1057	68.	40.	40.	40.	40.	40.	40.		
0059	7.	30.	30.	30.	30.	30.	30.		
0059	41.	35.	35.	35.	35.	35.	35.		
0060		30.	30.	30.	30.	30.	20.		
1, 01,				1000	= 170	The letter with	F. N.		

District	1970	1980	1990	2000	2010	2020	2030	2040	2050
1061	12.	30. 30.	30. 30.	30. 30.	30. 30.	30 ·	30. 30.	Same	Same
0063	0.	30.	30.	30.	30.	30.	30.	as	as
2764	21.	30.	30.	30.	30.	30.	30.	2030	2030
2065	35.	30.	30.	30.	30.	30.	30.		
1066	95.	50.	50.	50.	50.	50.	50.		
2067	75.	50.	50.	50.	50.	50.	50.		
0068	0.	30.	30.	30.	30.	30.	30.		
0069	26.	30.	30.	30.	30.	30.	30.		
0070	40.	30.	30.	30.	30.	30.	30.		
0071	5.	30.	30.	30.	30.	30.	30.		
2072	26.	30.	30.	30.	30.	30.	30.		
0073	21.	30.	30.	30.	30.	30.	30.		
0074	15.	30.	30.	30.	30.	30.	30.		
2075	36.	36.	36.	36.	36.	36.	36.		
2076	78.	30.	30.	30.	30.	30.	30.		
1077	19.	30.	30.	30.	30.	30.	30.		
1078	41.	35.	35.	35.	35.	35.	35.		
0079	37.	30.	30.	30.	30.	30.	30.		
0280	19.	30.	30.	30.	30.	30.	30.		
0381	65.	45.	45.	45.	45.	45.	45.		
0082	17.	30.	30.	30.	30.	30.	30.		
0083	549.	30.	30.	30.	30.	30.	30.		
0084	0.	30.	30.	30.	30.	30.	30.		
0085	2.	30.	30.	30.	30.	30.	30.		
1086	59.	45.	45.	45.	45.	45.	45.		
0087	18.	30.	30.	30.	30.	30.	30.		
1088	28.	28.	28.	28.	28.	28.	28.		
2089	32.	30.	30.	30.	30.	30.	30.		
0090	5.	30.	30.	30.	30.	30.	30.		
0091	12.	30.	30.	30.	30.	30.	30.		
0092	38.	30.	30.	30.	30.	30.	30.		
0093	121.	30.	30.	30.	30.	30.	30.		
0094	16.	30.	30.	30.	30.	30.	30.		
1095	112.	30.	30.	30.	30.	30.	. 30.		
2096	30.	30.	30.	30.	30.	30.	30.		
1097	80.	30.	30.	30.	30.	30.	30.		
1098	90.	30.	30.	30.	30.	30.	30.		
0079	67.	30.	30.	30.	30.	30.	30.		
2100	59.	30.	30.	30.	30.	30.	30.		
0101	13.	30.	30.	30.	30.	30.	30.		
0102	40.	30.	30.	30.	30.	30.	30.		
0103	32.	30.	30.	30.	30.	30.	30.		
0104	47.	30.	30.	30.	30.	30.	30.		
2105	10.	30.	30.	30.	30.	30.	30.		
2106	6.	30.	30.	30.	30.	30.	30.		
1107	11.	30.	30.	30.	30.	30.	30.		
1109	82.	30.	30.	30.	30.	30.	30.		
1107	42.	35.	35.	35.	35.	35.	35.		
1110	15.	70.	20.	20.	20.	20.	20.		
0111	106.	30.	30.	30.	30.	30.	30.		
1112	236.	236.	236.	236.	236.	236.	236.		
1113	57.	35.	35.	35.	35.	35.	35.		
1114	199.	200.	200.	200.	200.	500.	200.		
1115	71.	50.	50.	50.	50.	50.	50.		
2116	0.	50.	50.	50.	50.	50.	50.		
1117	21.	21.	21.	21.	21.	21.	21.		
1114	84.	30.	30.	30.	30.	30.	30.		
2119	40.	30.	30.	30.	30.	30.	30.		
2120 2121	28.	35. 30.	35.	35.	35.	35.	35.		
7177	63.			30.	30.	30.	30.		
1123	61.	45.	45.	45.	45.	45.	45.		
1124	83.	50.	50.	50.	45.	45.	45.		
2125	33.	30.	30.		50.	50.	50.		
****	,,,	300	500	30.	30.	30.	30.		

APPENDIX H

INDUSTRIAL NONMANUFACTURING DENSITY (EMPLOYEES PER ACRE)

APPENDIX H
INDUSTRIAL NONMANUFACTURING DENSITY
(Employees per Acre)

	3070	1000	1000	2000	2010	2020	2030	2040	2050
District	1970	1980	1990	2000	2010	2020	2030	2040	2000
001									C
0001	3.	15.	15.	15.	15.	15.	15.	Same as	Same as
1002	93.	30.	30.	30.	30.	30.	30.	2030	2030
2003	24.	15.	15.	15.	15.	15.	15.	-030	
0004	21.	15.	15.	15.	15.	15.	15.		
				15.	15.	15.	15.		
1005	34.	15.	15.			15.	15.		
0006	1.	15.	15.	15.	. 15.				
1007	121.	75.	75.	75.	75.	75.	* 75.		
0008	5.	15.	15.	15.	15.	15.	15.		
0009	42.	30.	30.	30.	30.	30.	30.		
0010	6.	15.	15.	15.	15.	15.	15.		
0011	56.	15.	15.	15.	15.	15.	15.		
		15.	15.	15.	15.	15.	15.		
0012	2.			15.	15.	15.	15.		
0013	7.	15.	15.						
2014	5.	15.	15.	15.	15.	15.	15.		
1015	236.	50.	50.	₹ 50 •	50.	50.	50.		
2016	71.	21.	21.	21.	21.	21.	21.		
1017	13.	15.	15.	15.	15.	15.	15.		
1018	67.	50.	50.	50.	50.	50.	50.		
2019	17.	15.	15.	15.	15.	15.	15.		
			15.	15.	15.	15.	15.		
0020	0.	15.							
0021	18.	15.	15.	15.	15.	15.	15.		
1022	14.	14.	14.	14.	14.	14.	14.		
0023	8.	15.	15.	15.	15.	15.	15.		
0024	15.	15.	15.	15.	15.	15.	15.		
0025	16.	16.	16.	16.	16.	16.	16.		
2025	16.	16.	16.	16.	16.	16.	16.		
0027	0.	15.	15.	15.	15.	15.	15.		
	2.	15.	15.	15.	15.	15.	15.		
0028						15.			
0027	6.	15.	15.	15.	15.		15.		
1030	39.	39.	39.	39.	39.	39.	39.		
2031	23.	15.	15.	15.	15.	15.	15.		
0032	16.	16.	16.	16.	16.	16.	16.		
0033	25.	25.	25.	25.	25.	25.	25.		
0034	74.	15.	15.	15.	15.	15.	15.		
0035	1.	15.	15.	15.	15.	15.	15.		
				1 2000					
2036	10.	15:	15.	15.	15.	15.	15.		
2017	4.			15.			15.		
0038	6.	15.	15.	15.	15.	15.	15.		
0039	9.	15.	15.	15.	15.	15.	15.		
0040	6.	15.	15.	15.	15.	15.	15.		
0041	21.	15.	15.	15.	15.	15.	15.		
0042	3.	15.	15.	15.	15.	15.	15.		
1043	9.	15.	15.	15.	15.	15.	15.		
0044	14.	15.	15.	15.	15.	15.	15.		
0045	3.	15.							
			15.	15.	15.	15.	15.		
0046	37.	25.	25.	25.	25.	25.	25.		
0047	105.	15.	15.	15.	15.	15.	15.		
1048	43.	20.	20.	20.	20.	20.	20.		
0049	43.	15.	15.	15.	15.	15.	15.		
0050	23.	15.	15.	15.	15.	15.	15.		
0051	6.	15.	15.	15.	15.	15.	15.		
0052	2.	15.	15.	15.	15.	15.	15.		
0053	11.	11.	11.	11.	11.	11.			
							11.		
0054	288.	15.	15.	15.	15.	15.	15.		
1055	23.	15.	15.	15.	15.	15.	15.		
0056	2.	15.	15.	15.	15.	15.	15.		
1057	75.	50.	50.	50.	50.	50.	50.		
0058	3.	15.	15.	15.	15.	15.	15.		
0059	5.	15.	15.	15.	15.	15.	15.		
0000	7.	15.	15.	15.	15.	15.	15.		

District	1970	1980	1990	2000	2010	2020	2030	2040	2050
1051	467.	50.	50.	50.	50.	50.	50.	Same	Same
2062	27.	20.	20.	20.	20.	50.	20.	as	as
0063	95.	15.	15.	15.	15.	15.	15.	2030	2030
2054	21.	15.	15.	15.	15.	15.	15.		
2055	55.	15.	15.	15. 15.	15.	15.	15.		
1066	33.	33.	33.	33.	33.	33.	15. 33.		
2057	103.	50.	50.	50.	50.	50.	50.		
0068	9.	15.	15.	15.	15.	15.	15.		
0069	4.	15.	15.	15.	15.	15.	15.		
0070	4.	15.	15.	15.	15.	15.	15.		
0071	14.	15.	15.	15.	15.	15.	15.		
2072	8.	15.	15.	15.	15.	15.	15.		
0073	25.	20.	20.	20.	20.	20.	20.		
0074	6.	15.	15.	15.	15.	15.	15.		
2075 2076	8.	14.	14.	14.	14.	14.	14.		
1077	9.	15.	15.	15.	15.	15.	15.		
1078	9.	15.	15.	15.	15.	15.	15.		
0079	7.	15.	15.	15.	15.	15.	15.		
0080	35.	35.	35.	35.	35.	35.	35.		
0041	60.	35.	35.	35.	35.	35.	35.		
00 42	4.	15.	15.	15.	15.	15.	15.		
0043	6.	15.	15.	15.	15.	15.	15.		
0084	36.	15.	15.	15.	15.	15.	15.		
0085	8.	15.	15.	15.	15.	15.	15.		
1096	39.	30.	30.	30.	30.	30.	30.		
0047	17.	17.	17. 22.	17. 22.	17. 22.	17. 22.	17.		
1058 2089	11.	15.	15.	15.	15.	15.	15.		
0090	5.	15.	15.	15.	15.	15.	15.		
0091	26.	15.	15.	15.	15.	15.	15.		
0092	19.	19.	19.	19.	19.	19.	19.		
0093	3.	15.	15.	15.	15.	15.	15.		
0094	8.	15.	15.	15.	15.	15.	15.		
1075	30.	30.	30.	30.	30.	30.	30.		
2076	11.	15.	15.	15.	15.	15.	15.		
1077	41.	15.	15.	15.	15.	15.	15.		
1098	60.	35.	35.	35.	35.	35.	35.		
0039	38.	15.	15.	15.	15.	15.	15.		
2120 0101	38 • 59 •	15.	15.	15.	15.	15.	15.		
0102	2.	15.	15.	15. 15.	15.	15.	15.		
0103	4.	15.	15.	15.	15.	15.	15.		
0104	9.	15.	15.	15.	15.	15.	15.		
2105	38.	15.	15.	15.	15.	15.	15.		
7106	18.	18.	18.	18.	18.	18.	18.		
1107	11.	15.	15.	15.	15.	15.	15.		
1108	55.	15.	15.	15.	15.	15.	15.		
1109	60.	30. 14.	30.	30.	30.	30.	30.		
0111	2.	15.	14.	14.	14.	14.	14.		
1112	226.	226.	226.	226.	15. 226.	15. 226.	15. 226.		
1113	59.	35.	35.	35.	35.	35.	35.		
1114	10.	19.	10.	10.	10.	10.	10.		
1115	14.	14.	14.	14.	14.	14.	14.		
2115	0.	15.	15.	15.	15.	15.	15.		
1117	35.	35.	35.	35.	35.	35.	35.		
1119	42.	15.	15.	15.	15.	15.	15.		
2119	0.	15.	15.	15.	15.	15.	15.		
2120	19.	19.	9.	9.	9.	9.	9.		
2172	46.	46.	46.	46.	46.	19.	19.		
1123	67.	67.	67.	67.	67.	67.	67.		
1174	71.	21.	21.	21.	21.	21.	21.		
2125	2.	15.	15.	15.	15.	15.	15.		

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APPENDIX I

RESIDENTIAL DENSITY (HOUSEHOLDS PER ACRE)

APPENDIX I RESIDENTIAL DENSITY (Households per Acre)

District	1970	1980	1990	2000	2010	2020	2030	2040	2050
0001 1002 2003 0004 1005	2. 6. 3. 3. 2.	3. 10. 3. 3.	4. 10. 4. 3. 4.	4. 12. 4. 3. 4.	4. 4. 4. 5.	4: 12: 4: 4: 5:	12.	Same as 2030	Same as 2030
0006 1007	6.	6.	6.	6.	6.	6.	6.		
0008	1.	4.	4.	4.	4:	2.	4.		
0010	2.	2.	3.	3.	3.	6.	6.		
0011	2.	2.	3.	3.	3.	3.	3.		
0013	1.	1.	1.	2.	2.	3.	3.		
2014	4.	4.	6. 20.	20.	20.	20.	8.		
1015	20.	7.	10.	10.	10.	10.	20.		
1017	2.	4.	4:	5.	5.	6.	7.		
1018	28.	28.	28.	28.	28.	28.	28.		
2019	2.		2.	3.	3.	3.	3.		
0021	2.	3.	3.	24.	24.	4.	4.		
1022	24.	24.	24.	2.	2.	24.	24.		
0023	2.	3.	4.	5.	6.	6.	7.		
0025	3.	3.	4.	4:	::	*:	4.		
2026 0027	1.	**	i.	2.	2.	2.	4.		
0028	1.	1.	1.	2.	2.	2.	2.		
0029	2.	2.	2. 17.	2 · 17 ·	2. 17.	17.	2.		
2031	17.	17.	8.	8.	10.	10.	17.		
0032	1.	2.	3.	3.	3.	4.	4.		
0033	3.	3.	3.	2.	2.	6.	6.		
0034 0035	26	2.	2.	4.	4.	4.	2.		
2036	2.	2.	3.	3.	3.	4.	4.		
2037 0038	3:	3.	2:	2:	2:	3.	3.		
0038	2.	2.	3.	3.	3.	3.	3.		
0040	3.	. 3.	3.	3.	3.	3.	3.		
0041	3.	5.	6.	6.	3.	3.	8.		
0042 1043	3.	2.	3.	3.	3.	6.	6.		
0044	1.	1.	2.	2.	2.	2.	2.		
0045	2.	2.	14.	14.	14.	14.	14.		
0046 0047	2.	2.	2.	3.	3.	3.	3.		
1048	12.	12.	15.	15.	15.	15.	15.		
0049	1.	1.	4.	4.	304	4.			
0051	4.	4.	6.	6.	6.	6.	6.		
0052	1.	2.	3.	3.	5.	5.	5.		
0053	2.	2.	2.	3.	3.	3.	3.		211
1055	11.	11.	15.	15.	15.	15.	15.		
0056	2.	3.	3. 15.	3.	3.	20.	3.		
1057	1.	8.	2.	2.	3.	3.	3.		
0059	4.	4.	4.	5.	5.	6.	6.		
0060	2.	3.	3.	3.	3.	••	*•		

District	1970	1980	1990	2000	2010	2020	2030	2040	2050
1061	3.	4.	5.	6.	7.	8.	10.		
2062	3.	4.	5.	6.	7.	8.	10.	Same	Same
0063 2064	3.	3.	5.	6.	7.	8.	9.	as	as
2065	3.	4.	8.	9.	10.	11.	12.		
1066	4.	6.	7.	8.	10.	12.	14.	2030	2030
2067	4.	5.	6.	7.	10.	12.	14.		
0065	1.	3.	3.	4.	4.	3.	5.		
0069 0070	2.	3.	4.	5.	5.	5.	5.		
0071	i.	2.	2.	3.	4.	6.	6.		
2072	4.	5.	6.	7.	8.	9.	10.		
0073	40	5.	8.	8.	9.	9.	10.		
0074 2075	1.	2.	2.	2.	3.	3.	13.		
2076	3.	3.	4.	4.	5.	5.	6.		
1077	3.	3.	5.	6.	7.	7.	8.		
1078	10.	10.	15.	20.	20.	20.	20.	ALC: NO	
0079	3.	3.	3.	3.	3.	4.	5.		
0080	12.	12.	14.	14.	15.	1.5	16.		
0082	4.	5.	6.	6.	6.	6.	6.		
0083	1.	1.	2.	2.	2.	4.	6.		
0084	2.	2.	3.	3.	4.	4.	5.		
0085	1.	1.	1.	30.	2.	3.	3.		
1086 0087	30.	30.	30.	5.	30.	7.	8.		
1088	4.	5.	6.	7.	8.	9.	10.		
2089	3.	8.	8.	8.	8.	8.	. 8.		
0090	1.	1.	2.	2.	2.	2.	2.		
0091	1.	2.	7.	7.	8.	8.	2.		
0092	2.	6.	3.	3.	4.	4.	5.		
0094	i.	1.	1.	2.	2.	3.	3.		
1095	4.	4.	8.	10.	12.	14.	16.		
2096	2.	2.	3.	3.	4.	4.	5.		
1097	7.	7.	10.	12.	12.	20.	20.		
1098	11.	11.	12.	12.	12.	12.	12.		
2100	2.	2.	3.	3.	4.	4.	5.		
0101	1.	1.	2.	2.	3.	3.	3.		
0102	3.	3.	4.	4.	5.	5.	6.		
0103	2.	2.	3.	3.	3.	3.	3.		
2105	2.	2.	3.	4.	5.	7.	7.		
2106	4.	4.	5.	5.	6.	12.	16.		
1107	2.	2.	10.	10.	10.	15.	15.		
1108 1109	3.	3.	4.	4.	4.	6.	6.		
1110	11.	11.	12.	12.	13.	13.	10.		
0111	2.	2.	3.	3.	4.	4.	5.		
1112	234.	234.	234.	234.	234.	234.	234.		
1113	25.	25.	30.	30.	30.	35.	35.		
1114 1115	48.	21.	21.	48.	22.	48.	48.		
2116	24.	24.	24.	25.	25.	26.	26.		
1117	37.	37.	37.	37.	37.	37.	37.		
1118	18.	18.	18.	18.	18.	18.	18.		
2119	9.	9.	9.	9.	9.	9.	9.		
2120 2121	8. 19.	9.	9.	10.	10.	10.	10.		
2122	10.	10.	10.	10.	10.	10.	10.		
1123	30.	30.	30.	30.	30.	30.	30.		
1124	39.	39.	39.	39.	39.	39.	39.		
2125	6.	6.	6.	6.	6.	6.	6.		

APPENDIX J

PERCENTAGE OF NEW DEVELOPMENT DEDICATED TO LOCAL STREETS

PERCENTAGE OF NEW DEVELOPMENT DEDICATED TO LOCAL STREETS

OFOLL SEASON

District 19	80	1990	2000	2010	2020	2030	2040	2050
0001	11.	10.	10.	•• ••	*. 11.	•. 11.	Same as 2030	Same as 2030
2003	11.	10.	10.	9	9.	8.	2030	
1005	11.	10.	10.	9.	9.	8.		
0006	11.	10.	10.	9.	9.			
1007	11.	11.	11.		ii.	11.		
0008	11.	10.	10.	9.	7.	9.		
0009	11.	11.	11.	11.	11.	11.		
0010	11.	10.	10.	9.	9.	8.		
0011	11.	10.	10.	9.	9.	8.		
0013	11.	10.	10.	9.	9.	8.		
2014	11.	11.	11.	11.	ii.	11.		
1015	11.	11.	11.	11.	11.	11.		
2016	11.	10.	10.	9.	9.	8.		
1017	11.	10.	10.	9.	9.	6.		
2019	11.	11.	11.	11.	11.	11.		
0020	11.	10.	10.	9.	9.	8.		
0021	11.	10.	10.	9.	9.	8		
1022	11.	11.	11.	11.	11.	11.		
0023	11.	10.	10.	9.	9.	8.		
0024 0025	11.	10.	10.	9.	9.	8.		
2026	11.	10.	10.	9.	9.			
0027	10.	10.	9.	9.	9.	8.		
0028	11.	10.	10.	9.	9.	8.		
0029	11.	10.	10.	9.	9.	8.		
1030	11.	11.	11.	11.	11.	11.		
2031 0032	11.	10.	10.	9.	9.	8.		
0033	11.	10.	10.	9.	9.	8.		
0034	11.	10.	10.	9.	11.	11.		
0035	11.	10.	10.	9.	9.			
2036	11.	10.	10.	9.	9.	6.		
2037 0038	#:	10.	10.	9.	::			
0039		10.	10.	9.		6.		
0040	11.	10.	10.	9.	•••			
0041	11.	11.	11.	11.	11.	11.		
0042	11.	10.	10.	9.	9.			
1043	11.	10.	10.	9.	9.	9.		
0044	11.	10.	10.	9.	9.	8.		
0046	11.	10.	10.	9.	9.			
0047	11.	10.	10.	11.	11.	11.		
1048	11.	11.	11.	11.	11.	11.		
0049	10.	10.	9.	9.	6.			
0050	11.	10.	10.	9.	9.	8.		
0051 0052	11.	10.	10.	9.	•	0.		
0053	11.	10.	11.	11.	11.	0.		
0054	11.	10.	10.	9.	9.	11.		
1055	11.	11.	11.	11.	11.	11.		
0056	11.	10.	10.	9.	9.			
1057	11.	11.	11.	11.	11.	11.		
0058	11.	10.	10.	9.	2.	8.		
0060	11.	10.	10.	10.	*:	9.		
					7.	0.		

District	1980	1990	2000	2010	2020	2030	2040	2050
1061 2062 0063	11. 11.	10. 10. 11.	10. 10. 11.	9. 9. 11.	9. 9. 11.	8. 8. 11.	8. 8. 11.	Same as 2030
2064	11.	10.	10.	9.	9.	8.	8.	2030
2065	11.	10.	10.	9.	9.	8.	8.	
1066	11.	11.	11.	11.	11.	11.	. 11.	
0068	11.	10.	11:	9.	11:	11:	111.	
0069	11.	10.	10.	9.	9.	8.	8.	
0070	11.	10.	10.	9.	9.	8.	8.	The Park of
0071	11.	10.	10.	9.	9.	8.	8.	
2072	11.	10.	10.	9.	9.	8.	8.	
0073	11.	10.	10.	9.	9.	8.	8.	
2075	11.	11.	11.	11.	11.	11.	11.	
2076	11.	10.	10.	9.	9.	8.	8.	
1077	11.	10.	10.	9.	9.	8.	8.	
1078	11.	11.	11.	11.	11.	11.	11.	
0079 0080	11.	10.	10.	9. 11.	9.	8.	11.	
0081	11.	11.	11.	ii.	ii.	11.	11.	
0082	11.	11.	11.	11.	11.	11.	11.	
0083	11.	10.	10.	9.	9.	8.	8.	
0084	11.	10.	10.	9.	9.	8.	8.	
0085	11.	10.	10.	9.	9.	8.	8.	
1086 0087	11.	11.	11.	11.	11.	11.	11.	
1088	11.	10.	11.	9. 11.	9.	8.	8.	
2089	11.	10.	10.	9.	9.	8.	8.	
0.90	44.	400	iù.	7.	9.	8.	6.	
0091	11.	10.	10.	9.	9.	8.	8.	
0092	11.	11.	11.	11.	11.	11.	11.	
0093	11.	10.	10.	9.	9.	8.	8.	
0094 1095	11.	10.	10.	9. 11.	9.	8. 11.	8. 11.	
2096	11.	10.	10.	9.	9.	8.	8.	
		10.	10.	9.	9.	8.	8.	
1097 1098	ll:	11.	ii.	ii.	ii.	11.	11.	
0099	11.	10.	10.	9.	9.	8.	8.	
2100	10.	10.	9.	9.	8.	8.	7.	
0101	11.	10.	10.	9.	9.	8.	8.	
0102 0103	11.	10.	10.	9.	9.	8.	8.	
0104	10.	10.	9.	9.	8.	8.	7.	
2105	11.	10.	10.	9.	9.	8.	8.	
2106	11.	11.	11.	11.	11.	11.	11.	
1107	11.	10.	10.	9.	9.	8.	8.	
1108	11.	10.	10.	9. 11.	9.	8.	8.	
1110	ii.	10.	10.	10.	10.	10.	10.	
0111	11.	10.	10.	9.	9.	8.	8.	
1112	11.	11.	11.	11.	11.	11.	11.	
1113	11.	11.	11.	11.	11.	11.	11.	
1114 1115	11.	11.	11.	11.	11.	11.	11.	
2115	11.	11.	ii.	ii.	11.	11.	ii.	
1117	ii.	11.	11.	ii.	ii.	ii.	11.	
1115	11.	11.	11.	11.	11.	11.	11.	
2119	11.	11.	11.	11.	11.	11.	11.	
2120	11.	11.	11.	11.	11.	11.	11.	
2121 2122	11.	11.	11.	11.	11.	11.	11.	
1123	11.	11.	11.	ii.	11.	11.	ii.	
1124	11.	11.	11.	11.	11.	11.	11.	
2125	11.	11.	11.	11.	11.	11.	11.	

APPENDIX K

PERCENTAGE OF NEW DEVELOPMENT DEDICATED TO LOCAL OPEN SPACE

APPENDIX K
PERCENTAGE OF NEW DEVELOPMENT
DEDICATED TO LOCAL OPEN SPACE

0001 11. 10. 10. 9. 9. 1. 11. 11. 12. 2040 1002 11. 11. 11. 11. 11. 11. 11. 11. 12. 12	District	1980	1990	2000	2010	2020	2030	2040	2050
100 100									
1005 11. 10. 10. 9. 9. 8. 8. 8.									2040
1000 11. 10. 10. 9. 9. 8. 8. 1007 11.									
0006 11. 10. 10. 10. 9. 9. 8. 8. 11. 10. 10. 10. 9. 9. 9. 8. 8. 00. 00. 11. 11. 11. 11. 11. 11. 11. 11									91.00
1007 11. 10. 10. 10. 11. 11. 11. 10. 10. 10. 9. 9. 9. 8. 8. 10. 10. 10. 10. 10. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 8. 8. 10. 1									
0008 11. 10. 10. 9. 9. 9. 0. 8. 0. 0009 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
0009 11, 10 10 10 9, 9, 8, 8, 8, 10 10 10 11, 10 10 10 9, 9, 8, 8, 8, 10 10 11, 10 10 10 9, 9, 8, 8, 8, 10 10 11, 11, 11, 11, 11, 11, 11, 11,									
0010 11. 10. 10. 9. 9. 8. 8. 8. 0012 11. 10. 10. 9. 9. 8. 8. 8. 0012 11. 10. 10. 9. 9. 8. 8. 8. 8. 0013 11. 10. 10. 10. 9. 9. 8. 8. 8. 8. 0013 11. 10. 10. 10. 9. 9. 8. 8. 8. 8. 10. 1015 11. 11. 11. 11. 11. 11. 11. 11. 11. 1									
0012 11. 10. 10. 9. 9. 8. 8. 8. 0013 11. 10. 10. 9. 9. 9. 8. 8. 8. 0013 11. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 11. 11. 11. 11. 11. 11. 11. 11									
0012 11. 10. 10. 9. 9. 8. 8. 9. 2014 11. 11. 11. 11. 11. 11. 11. 11. 11. 1									
0013 11. 10. 10. 10. 9. 9. 8. 8. 11. 11. 11. 11. 11. 11. 11. 11.									
2014 11. 11. 11. 11. 11. 11. 11. 11. 11. 1									
1015 11.									
2016									
1016 11. 10. 10. 9. 9. 8. 8. 11. 12. 12. 13. 1									
1018 11.									
2010 11. 10. 10. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 9. 9. 9. 8. 8. 8. 10. 10. 10. 10. 10. 9.									
0020									
1027 11. 10. 10. 9. 9. 8. 8. 1027 11. 11. 11. 11. 11. 11. 11. 10. 10. 10. 9. 9. 8. 8. 0024 11. 10. 10. 9. 9. 8. 8. 0025 11. 10. 10. 9. 9. 8. 8. 2026 11. 10. 10. 9. 9. 8. 8. 0027 10. 10. 9. 9. 8. 8. 0028 11. 10. 10. 9. 9. 8. 8. 0029 11. 10. 10. 9. 9. 8. 8. 1030 11. 11. 11. 11. 11. 11. 11. 2031 11. 10. 10. 9. 9. 8. 8. 0032 11. 10. 10. 9. 9. 8. 8. 0033 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 0034 11. 10. 10. 9. 9. 8. 8. 2035 11. 10. 10. 9. 9. 8. 8. 2036 11. 10. 10. 9. 9. 8. 8. 2037 11. 10. 10. 9. 9. 8. 8. 0038 11. 10. 10. 9. 9. 8. 8. 0040 11. 10. 10. 9. 9. 8. 8. 0041 11. 10. 10. 9. 9. 8. 8. 0044 11. 10. 10. 9. 9. 8. 8. 0045 11. 10. 10. 9. 9. 8. 8. 0046 11. 10. 10. 9. 9. 8. 8. 0047 11. 10. 10. 9. 9. 8. 8. 0046 11. 10. 10. 9. 9. 8. 8. 0047 11. 10. 10. 9. 9. 8. 8. 0046 11. 10. 10. 9. 9. 8. 8. 0057 11. 10. 10. 9. 9. 8. 8. 0059 11. 10. 10. 9. 9. 8. 8. 0051 11. 10. 10. 9. 9. 8. 8. 0052 11. 10. 10. 9. 9. 8. 8. 0055 11. 10. 10. 9. 9. 8. 8. 0056 11. 10. 10. 9. 9. 8. 8. 0057 11. 11. 11. 11. 11. 11. 11. 11. 0056 11. 10. 10. 9. 9. 8. 8. 0057 11.									
1027									
0024 11 10 10 10 9 9 9 8 8 8 9 10 20 25 11 10 10 10 9 9 9 8 8 8 8 10 20 27 10 10 10 9 9 9 8 8 8 8 10 20 27 10 10 10 9 9 9 8 8 8 8 10 20 27 10 10 10 9 9 9 9 8 8 8 8 10 20 27 10 10 10 9 9 9 9 8 8 8 8 10 20 29 11 10 10 10 9 9 9 9 8 8 8 8 10 20 29 11 10 10 10 9 9 9 9 8 8 8 8 10 20 29 11 10 10 10 10 9 9 9 8 8 8 8 10 20 20 21 11 10 10 10 10 9 9 9 8 8 8 8 8 10 20 20 21 11 10 10 10 10 9 9 9 8 8 8 8 8 8 10 20 20 21 11 10 10 10 10 9 9 9 8 8 8 8 8 8 10 20 20 21 11 10 10 10 10 9 9 9 8 8 8 8 8 8 10 20 20 20 21 11 10 10 10 10 9 9 9 9 8 8 8 8 8 10 20 20 20 20 21 11 10 20 20 20 20 20 20 20 20 20 20 20 20 20									
0024									
0025 11. 10. 10. 9. 9. 8. 8. 2026 11. 10. 10. 9. 9. 8. 8. 7. 0027 10. 10. 9. 9. 8. 8. 7. 0028 11. 10. 10. 9. 9. 8. 8. 1030 11. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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0027 10. 10. 9. 9. 8. 8. 7. 0028 11. 10. 10. 10. 9. 9. 8. 8. 8. 0029 11. 10. 10. 10. 9. 9. 8. 8. 8. 0029 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
0028									
1030									
1030				10.	9.	9.	and the second	8.	
2031								11.	
0033 11. 11. 10. 10. 9. 9. 9. 8. 8. 0. 0035 11. 10. 10. 9. 9. 9. 8. 8. 8. 0. 0035 11. 10. 10. 10. 9. 9. 9. 8. 8. 8. 0. 0035 11. 10. 10. 10. 9. 9. 9. 8. 8. 8. 0. 0038 11. 10. 10. 10. 9. 9. 9. 8. 8. 8. 0. 0038 11. 10. 10. 10. 9. 9. 9. 8. 8. 8. 0. 0039 11. 10. 10. 10. 9. 9. 9. 8. 8. 8. 0. 0040 11. 10. 10. 10. 9. 9. 9. 8. 8. 0. 0040 11. 10. 11. 11. 11. 11. 11. 11. 11. 10. 10		11.	10.	10.	9.	9.	8.	8.	
0034 11 10 10 10 9 9 9 8 8 8 8 9 2036 11 10 10 10 9 9 9 9 8 8 8 8 8 9 2036 11 10 10 10 10 9 9 9 9 8 8 8 8 8 9 2036 11 10 10 10 10 9 9 9 9 8 8 8 8 8 9 2037 11 10 10 10 10 9 9 9 9 8 8 8 8 9 8 9 9 8 8 8 8 9 9 9 9 8 9 9 8 9	0032	11.	10.	10.	9.		8.	8.	
10	0033		11.					11.	
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7037 11. 10. 10. 9. 9. 8. 8. 0.0038 11. 10. 10. 9. 9. 9. 8. 8. 0.0039 11. 10. 10. 10. 9. 9. 8. 8. 8. 0.0040 11. 10. 10. 9. 9. 9. 8. 8. 0.0041 11. 11. 11. 11. 11. 11. 11. 11. 11. 1						200 100 1220			0015
0036 11. 10. 10. 9. 9. 8. 8. 0. 0040 11. 10. 10. 9. 9. 9. 8. 8. 0040 0041 11. 11. 11. 11. 11. 11. 11. 11. 11. 1	2036	11.	10.	10.	9.	9.	•		1100
0038	2037	11.	10.	10.	9.	9.		8.	
0040 11. 10. 10. 9. 9. 9. 8. 8. 0. 0041 11. 11. 11. 11. 11. 11. 11. 11. 11. 1	0038	11.	10.	10.	9.		8.		
0042 11. 10. 10. 10. 9. 9. 8. 8. 10. 10. 10. 9. 9. 9. 8. 8. 00. 10. 10. 9. 9. 9. 8. 8. 8. 00. 10. 10. 9. 9. 9. 8. 8. 8. 00. 10. 10. 10. 9. 9. 9. 8. 8. 8. 00. 10. 10. 10. 10. 10. 10. 11. 11. 11							8.	8.	
0042 11. 10. 10. 9. 9. 8. 8. 1043 11. 10. 10. 10. 9. 9. 9. 8. 8. 0044 11. 10. 10. 10. 9. 9. 8. 8. 8. 0045 11. 10. 10. 10. 9. 9. 8. 8. 8. 0046 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
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0044 11. 10. 10. 9. 9. 8. 8. 0045 11. 10. 10. 9. 9. 9. 8. 8. 0046 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
0045 11. 10. 10. 9. 9. 8. 8. 0046 11. 11. 11. 11. 11. 11. 11. 11. 0047 11. 10. 10. 9. 9. 8. 8. 1048 11. 11. 11. 11. 11. 11. 11. 11. 0049 10. 10. 9. 9. 8. 8. 7. 0050 11. 10. 10. 9. 9. 8. 8. 0051 11. 10. 10. 9. 9. 9. 8. 8. 0052 11. 10. 10. 9. 9. 9. 8. 8. 0053 11. 11. 10. 10. 9. 9. 9. 8. 8. 1055 11. 11. 11. 11. 11. 11. 11. 11. 11. 1									
0046 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									2111
0047 11. 10. 10. 9. 9. 9. 8. 8. 10. 10. 10. 10. 11. 11. 11. 11. 11. 11									
1048 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
0049 10. 10. 9. 9. 8. 7. 0050 11. 10. 10. 9. 9. 9. 8. 8. 0051 11. 10. 10. 9. 9. 6. 6. 0052 11. 10. 10. 9. 9. 9. 8. 8. 0053 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
0050 11. 10. 10. 9. 9. 9. 8. 8. 0051 11. 10. 10. 9. 9. 6. 6. 0052 11. 10. 10. 9. 9. 9. 6. 8. 0053 11. 11. 11. 11. 11. 11. 11. 11. 11. 11								110	
0051 11. 10. 10. 9. 9. 6. 6. 6. 0052 11. 10. 10. 10. 9. 9. 9. 6. 6. 6. 0053 11. 11. 11. 11. 11. 11. 11. 11. 11. 11							- 11 to		
0052 11. 10. 10. 9. 9. 8. 8. 0053 11. 11. 11. 11. 11. 11. 11. 0054 11. 10. 10. 9. 9. 8. 8. 1055 11. 11. 11. 11. 11. 11. 11. 11. 0056 11. 10. 10. 9. 9. 8. 8. 1057 11. 11. 11. 11. 11. 11. 11. 11. 11.									
0053 11. 11. 11. 11. 11. 11. 11. 11. 11. 11									
0054 11. 10. 10. 9. 9. 8. 8. 11. 10. 11. 11. 11. 11. 11. 11. 11. 11							11.	11.	
1055 11. 11. 11. 11. 11. 11. 11. 11. 11. 1									
0056 11. 10. 10. 9. 9. 8. 8. 1057 11. 11. 11. 11. 11. 11. 11. 0058 11. 10. 10. 9. 9. 8. 8.							11.		
1057 11. 11. 11. 11. 11. 11. 11. 11. 11. 0058 11. 10. 10. 9. 9. 9. 8. 8.									
0058 11. 10. 10. 9. 9. 8. 8.	1057								
	0059	ii.	ii.	10.	10.	9.	9.		
0060 11. 10 10. 9. 9. 6. 8.		11.	10.						

^{*}For names of towns see Appendix M.

District	1980	1990	2000	2010	2020	2030	2040	2050
1061	.11.	10.	10.		•			Same
2062	11.	10.	10.	9.	9.	8.	8.	
0063	ii.	11.	ii.	ii.	ii.	ii.	8. 11.	as
2064	11.	10.	10.	9.	9.	8.	8.	2040
2065	11.	10.	10.	9.	9.	8.	8.	
1066	11.	11.	11.	11.	. 11.	11.	11.	
2067	11.	11.	11.	11.	11.	11.	11.	
0068	11.	10.	10.	9.	9.	8.	6.	
0069	11.	10.	10.	9.	9.	8.	8.	
0070	11.	10.	10.	9.	9.	8.	8.	
0071	11.	10.	10.	9.	9.	8.	8.	
2072	11.	10.	10.	9.	9.	8.	8.	
0073	11.	10.	10.	9.	9.	8.	8.	
0074	11.	10.	10.	9.	9.	8.	8.	
2075	11.	11.	11.	11.	11.	11.	11.	
2076	11.	10.	10.	9.	9.	8.	8.	
1077	11.	10.	10.	9.	9.	8.	8.	
1078	11.	11.	11.	12.	11.	11.	11.	
0079	11.	10.	10.	9.	9.	8.	8.	
080	11.	11.	11.	110	11.	11.	11.	
0081	11.	11.	11.	11.	11.	11.	11.	
0082	11.	11.	11.	11.	11.	11.	11.	
0083	11.	. 10.	10.	9.	9.	8.	8.	
0084	11.	10.	10.	9.	9.	8.	8.	
0085 1086	11.	10.	10.	9.	9.	8.	8.	
0087	11.	11.	11.	11.	11.	11.	11.	
1088	11.	10.	10.	9.	9.	8.	8.	
2089	11.	11.	11.	11.	11.	11.	11.	
0090	11.	10.	10.	9.	9.	8.	8.	
0091	11.	10.	10.	9.	9.		8.	
0092	11.	11.	11.	ii.	ii.	11.	8. 11.	
0093	11.	10.	10.	9.	9.	8.		
0094	11.	10.	10.	9.	9.	8.	8.	
1095	11.	11.	11.	11.	11.	11.	11.	
2096	11.	10.	10.	9.	9.		8.	
		10.						
1097	11:	11:	10.	9:	9.	8.	11.	
0099	ii.	10.	10.	9.	9.	8.	8.	
2100	10.	10.	9.	9.	8.	8.	7.	
0101	11.	10.	10.	9.	9.	8.	8.	
0102	11.	10.	10.	9.	9.	8.	8.	
0103	11.	10.	10.	9.	9.	8.	8.	
0104	10.	10.	9.	9.	8.	8.	7.	
2105	11.	10.	10.	9.	9.	8.	8.	
2106	11.	11.	11.	11.	11.	11.	li.	
1107	11.	10.	10.	9.	9.	8.	8.	
1100	11.	10.	10.	9.	9.	8.	8.	
1109	11.	11.	11.	11.	11.	11.	11.	
1110	11.	10.	10.	10.	10.	10.	10.	
0111	11.	10.	10.	9.	9.	8.	8.	
1112	11.	110	11.	11.	11.	11.	11.	
1113	11.	11.	11.	11.	11.	11.	11.	100
1114	11.	11.	11.	11.	11.	11.	11.	
1115	11.	11.	11.	11.	11.	11.	11.	
2116	11.	11.	11.	11.	11.	11.	11.	
1117	11.	11.	11.	11.	11.	11.	11.	
1118	11.	11.	11.	11.	11.	11.	11.	
2117	11.	11.	11.	11.	11.	11.	11.	
2120	11.	11.	11.	11.	11.	11.	11.	
2121	11.	11.	11.	11.	11.	11.	11.	
2122	11.	11.	11.	11.	· 11.	11.	110	
1123	11.	11.	11.	11.	11.	11.	11.	
1124	11.	11.	11.	11.	11.	11.	11.	
2175	11.	11.	11.	11.	11.	11.	11.	

APPENDIX L

ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

	COMMFR- CIAL EMPL NYMT	559. 1321.	3220. 3005. 5202. 4173.	6217. 5542. 7704. 6384. 9406.	10607. 12310. 8905. 13259.	ACRES	12998.	2005 2008 2008	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	INDUST./ NON-MFG. EMPL CYMT	180.	1650. 1360. 2409. 2090.	2674. 2593. 3109. 3435. 3383.	3801. 3712. 4213. 4652. 4479.	TOTAL	12			
	VERY WET MANUF G EMPLOYMT	9.				PESTRICT OPEN SPACE AC	1003.	1056. 1053. 1113. 1106.	1137. 1129. 1166. 1153. 1187.	1189. 1210. 1210. 1175. 1235.
	MANUF'S	743.	240. 186. 157.	78.		STPEFTS/ HIGHWAYS ACP ES	500.	1001. 934. 1254. 1164.	1300. 1217. 1355. 1259. 1404.	1428. 1284. 1476. 1305. 1512.
	MANJF'G EMPLOYMT	390.	1089. 730. 1737.	1714. 1127. 1833. 1243. 1977.	2326. 1664. 2503. 1813. 2075.	EXTENSIV INSTITUT ACRES				
	HIGH INCOME HH'S	643.	1761. 1718. 2247. 2145.	2645. 2678. 3017. 2722. 3396.	3800. 3133. 4132. 3277. 4823.	EXTENSIV INDUSTIL ACRES	335.	335. 335. 335.	335. 335. 335. 335.	335. 335. 335. 335. 335.
	MIDDLE	547.	2040. 1986. 2796. 2631.	3503. 3226. 4171. 3723. 4851.	5443. 4671. 6004. 4733. 6616.	NON-MEG ACRES	60. 165.	1322. 1033. 2091. 1763.	2099. 1797. 2128. 1826. 2150.	2174. 1871. 2202. 1895. 2219.
	LOWER WIDDLE	617.	1372. 1333. 2000. 1849.	2378. 2378. 3203. 2865. 3865.	4667. 3921. 5473. 4140. 6302.	MANUF G ACPES	74.	54. 43. 70.	67. 68. 52. 72.	82. 64. 87. 72.
	I NC DWE	125.	370. 356. 551.	732. 652. 912. 799. 1104.	1297. 1114. 1474. 1125. 1631.	MEDCIAL ACRES	152.	486. 471. 618. 549.	640. 785. 697. 898.	978. 810. 1092. 865. 1155.
	EMPL NY-	2220.	6201. 5284. 9504. 7464.	10683. 9327. 12646. 10665. 14818.	16733. 13453. 1902 6. 14779. 19814.	NET RES-	1069.	2859. 2823. 3570. 3486.	3875. 3773. 4190. 4424. 4229.	4446. 3912. 4681. 4967. 4967.
	TOTAL HOUSE- HOLOS	1932.	5543. 5393. 7595.	9474. 8735. 11303. 10097. 13217.	15206. 12838. 17084. 13275. 19372.	· USEN.	1354.	4721. 4370. 6340. 5849.	6726. 6261. 7170. 6614. 7544.	7680. 6657. 8061. 6794. 9413.
,	PODULA- TION	7238.	20555. 20008. 27396. 25675.	34161. 39615. 35396. 45314.	53277. 44989. 59847. 45517. 65918.	VACANT (AVATL) ACPFS	9807.	5985. 6306. 3957. 4545.	3530. 4056. 2973. 3638. 2529.	2366. 3552. 1917. 3389. 1503.
1 ACTON		1960	1980 HIGH 1980 LOW 1980 LOW 1990 LIGH	2000 UTCH 2000 LM 2010 UTCH 2010 UTCH 2020 UTCH 2020 UTCH	2030 HIGH 2030 LOW 2040 HICH 2040 LOW 2050 HIGH 2050 HIGH		1960	1980 HIGH 1980 LOW 1990 HIGH	2000 HTCH 2000 LTW 2010 HTCH 2010 LTW 2020 HTCH 2020 HTCH	2020 HICH 2030 LOW 2040 HIGH 2050 HIGH 2050 HIGH

The state of the s

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

2400. 2400. 2200. 2200. 2000. 1838. 1816. 1785. 1779. 1744. 3500. 3500. 2700. 2700. COMMER-CIAL EMPLOYMT 2728. TOTAL ACRES 3571. 1932. 1608. 1775. 1573. 1193. 1307. 1291. 1424. 1366. 1524. 1492. 1366. 1397. 1118. INDUST./ NON-NFG. EMPLOYMT .. .0 .0 559. 561. 559. 559. 561. 559. 561. 559. 561. 561. 557. RESTRICT OPEN SPACE AC VERY WET MANUF 'G EMPLOYMT 153. 159. 109. 153. 159. 159. 128. 139. 672. 661. 671. 657. 675. 666. 678. 644. 644. 640. STREETS/ HIGHWAYS ACRES MANJE G EMPLOYMT 630. .. .0 .0 .. .00 50. EXTENSIV INSTITUT ACRES MAN'JF'G EMPLOYMT 120. 29. 100. .. 53. 53. 53. 53. 53. 53. 2084. 2226. 1993. 2110. 1691. 1425. 1340. 1190. 1117. 993. 53. 53. 53. 2687. 2593. 2381. 2577. EXTENSIV INDUST'L ACRES HIGH INCOME HH'S 37. 4882. 4699. 4594. 4008. 4168. 2800. 2800. 2500. 2500. 2200. 56. 34. 51. 44. 39. 29. 32. 5258. 5200. 5250. 5187. NET IND/ NON-MFG ACRES MIDDLE INC HH'S .0 6. 4. 3. 9687. 8600. 9733. 8400. 9785. 7360. 7253. 8070. 7800. 8594. 8170. 9058. 8477. 9409. NET IND/ MANUF'S ACRES 8. 90. 117. 60. 80. 67. 62. 74. 2887. 2525. 2950. 2526. 3017. 2473. 2340. 2629. 2450. 2758. NET COM-MERCIAL ACRES 2075. 2042. 2304. 2121. 2065. 2133. 2079. 2026. 1947. 1798. 1898. 1713. 1854. 2084. 2051. 2134. 2154. 4138. 4081. 3725. 3725. 3257. 3183. 3235. 3207. 3310. NET RES-IDENTIAL ACRES 1782. EMPLOY-5190. 2049. 1891. 2005. 1812. 1966. 2262. 2205. 2281. 2283. 2250. 2181. 2249. 2185. 2128. 18163. 17618. 18280. 17631. 17867. 15799. 16373. 14543. 15996. 13854. 17381. 17188. 19305. 17769. ACRES 2286. 1905. 14754. 0.0 24. 438. 310. 525. 353. 36. 115. 38. 110. 174. 52485. 51907. 54357. 53650. 54830. 53195. 55181. 53235. 53942. 52136. 49461. 43972. 48329. 41905. 50739. VACANT (AVAIL) ACPES 424. 53557. APL INGTON 2030 HTGH 2030 LNW 2040 HTGH 2050 LNW 2050 HTGH 2050 LNW 2000 HIGH 2000 LOW 2010 HIGH 2010 LCW 2020 HIGH 2020 HIGH 2030 HTGH 2030 LNW 2040 HTGH 2040 LOW 2050 HTGH 2050 LOW 2000 HIGH 2000 LOW 2010 HIGH 2011 LOW 2020 HIGH 2020 LOW 1980 HIGH 1980 LOW 1990 HIGH 1990 LOW 1980 HIGH 1980 LUW 1990 HIGH 1900 LCW 1940 1960

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALCCATIONS 1950 - 2350

| | COMMES-
CIAL
EMPLOYMT | 849.
1560. | 3496.
3272.
4500.
4500. | 5806.
6339.
7759.
7530.
9573. | 11321.
9633.
13710.
10800.
15237. | CRES | 8294. | In Section 1 | To the second se | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
|-----------|----------------------------------|---------------|---|--|--|--------------------------------|---------------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 230. | 1713.
1413.
2816.
2433. | 3162.
3148.
3755.
3808.
4107. | 4659.
4719.
5272.
5251.
5712. | TOTAL ACRES | 82 | | 7 - V 1 - V | |
| | VERY WET
MANUF'G
EMPLIYMT | •• | | • • • • | | R ESTP ICT
OPFN
SPACE AC | 968. | 980.
979.
1010.
1007. | 1032.
1026.
1059.
1048.
1078. | 1078.
1062.
1095.
1066.
1115. |
| | MANUE 6 | 115. | 182.
144.
214.
158. | 227.
222.
156.
208. | 213.
213.
68.
196. | STREETS/ PHIGHWAYS | 259. | 357.
348.
419. | 462.
458.
520.
501.
565. | 590.
533.
642.
556.
682. |
| | MANIF 'S
EMPLOYMT | 1668. | 3453.
2874.
4033.
3208. | 4028.
3220.
4055.
3246.
4088. | 4169.
4218.
3361.
4112.
3315. | EXTENSIV SINSTITUT ACRES | 170. | 170.
170.
170.
170. | 170.
170.
170.
170.
170. | 170.
170.
170.
170.
170. |
| | HIGH
INCOME
HH'S | 297. | 610.
592.
878.
828. | 1113.
1026.
1324.
1167.
1527. | 1751.
1426.
1905.
1494.
2195. | EXTENSIV EINDUST*L I | 209. | 209.
209.
209. | 209.
209.
209.
209.
209. | 209.
209.
209.
209.
209. |
| | H TOOL E | 660. | 995.
976.
1301.
1228. | 1612.
1482.
1892.
1684.
2152. | 2475.
2475.
1995.
2628. | NET TND/ | 21. | 61.
51.
98.
85. | 109.
129.
131.
141. | 159.
161.
180.
179.
194. |
| | LOWER MIDDLE | 963. | 1154.
1132.
1492.
1385. | 1812.
1648.
2130.
1879.
2455.
2081. | 2755.
2269.
3099.
2347.
3445. | MET IND/
MANUF G
ACRES | 28. | 59.
68.
54. | 68.
68.
68. | 70.
54.
70.
55.
69. |
| | I NC UM E | 152. | 392.
377.
562.
511. | 675.
610.
776.
692.
882. | 971.
824.
1085.
831.
1181.
825. | NET COM-
MEDCTAL
ACRES | 104. | 320.
305.
387. | 474.
509.
604.
589.
725. | 841.
727.
1001.
807.
1102. |
| | FMPL NY- | 2862. | 8854.
7702.
11563.
10299. | 13223.
12870.
15791.
14740.
17976. | 20361.
17744.
23413.
19480.
25258. | NET PES-
IDENTIAL
ACRES | 732. | 1161.
1141.
1545.
1486. | 1781.
1702.
2089.
1949.
2293.
2102. | 2271.
1918.
2464.
1960.
2686. |
| | HOUSE- | 2372. | 3151.
3076.
4233.
3952. | 5212.
4767.
5122.
5423.
7017. | 7792.
6498.
8564.
6667.
9450. | ACRES | 873.
1122. | 1600.
1545.
2097.
2011. | 2432.
2374.
2889.
2723.
3227. | 3342.
2961.
3715.
3000.
4051. |
| UNI | TOTAL
PODIJLA-
TIN | 8882. | 11416.
11146.
14889.
13906. | 18314.
16756.
20939.
18510.
23931.
27413. | 25787.
21518.
28334.
22073.
30311. | VACANT
(AVAIL)
ACRES | 5815. | 4981.
5045.
4392.
4492. | 3992.
4060.
3450.
3646.
3048. | 2908.
3461.
2455.
3295.
2069. |
| A ASHLAND | | 1960 | 1980 HIGH
1980 LOW
1950 HIGH
1900 I OW | 2000 HIGH
2000 LOW
2010 HIGH
2020 LOW
2020 HIGH
2020 HIGH | 2020 HIGH
2030 LM
2040 HIGH
2040 LFW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1993 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 HIGH
2020 LUM | 2040 HIGH
2040 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPL NYMT | 332. | . 1472.
2406.
. 1968. | 2841.
2582.
3452.
2928.
3948. | 4333.
3462.
4845.
3775.
5051. | ACRES | 2880. | | | |
|--------|----------------------------------|--------------|---|---|--|-------------------------------|------------|--|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 167. | 943.
780.
1246.
1093. | 1348.
1309.
1511.
1480.
1579. | 1672.
1661
1773.
1779
1809. | TOTAL ACR | 2 | | | |
| | MANUF 15 | •• | •••• | | | RESTRICT
OPEN
SPACE AC | 623. | 628.
628.
645.
642. | 653.
650.
660.
655.
665. | 665.
658.
667.
670.
659. |
| | MANUF.G | 341. | 226.
176.
192. | 154.
115.
117.
86.
73. | 33.00.00.00 | STPEETS/
HIGHWAYS
ACRES | 188. | 241.
236.
278.
265. | 342.
332.
360.
344.
372. | 378.
351.
387.
356.
392. |
| | MANUF G | 127. | 930.
714.
1070.
797. | 1068.
1069.
1027. | 971.
718.
888.
656.
640. | EXTENSIV
INSTITUT
ACRES | •• | • • • • | | |
| | HIGH
INCOME
HH'S | 142. | 391.
378.
568. | 724.
662.
861.
750.
1002. | 1212.
947.
1226.
1273.
952. | EXTENSIV
INDUST*L
ACRES | 81. | 81.
81.
81. | 81.
81.
81.
81. | 81.
81.
81.
81. |
| | UPPER
MIDDLE
INC HH'S | 333. | 532.
523.
637. | 739.
690.
838.
760.
939. | 1028.
879.
1091.
884.
1155. | NET IND/
NON-MFG
ACRES | 8.
17. | 56.
45.
76. | 83.
80.
94.
91.
98. | 104.
103.
111.
111.
113. |
| | LOWER MIDDLE | 602.
571. | 631.
622.
738.
695. | 831.
768.
921.
831.
1007. | 1052.
899.
1114.
911.
1172. | MET IND/
MANUF G
ACP ES | 2.
17. | 22.
17.
24. | 23.
22.
17.
21. | 19.
14.
17.
12.
12. |
| | I NCOME
HH * S | 116. | 213.
206.
267. | 305.
281.
335.
304.
362. | 365.
317.
385.
318.
472. | NET COM-
MERCIAL
ACRES | 35.
86. | 136.
130.
192.
163. | 221.
262.
262.
227.
295. | 321.
263.
355.
384.
369. |
| | TOTAL
EMPLOY- | 626. | 3663.
3141.
4914.
4003. | 5410.
4807.
6149.
5296.
6627.
5637. | 7008.
5841.
7506.
6211.
7500. | NET RES-
IDENTIAL
ACRES | 438. | 668.
657.
872.
839. | 965.
1044.
1100.
1100. | 1101.
946.
1121.
943.
1153. |
| | TOTAL
HOUSE-
HOLDS | 1193. | 1767.
1729.
2209.
2084. | 2599.
2400.
2955.
2645.
3311. | 3657.
3042.
3816.
3032.
4072. | · USED •
ACRES | 484. | 881.
849.
1164.
1086. | 1292.
1221.
1422.
1314.
1514. | 1545.
1326.
1603.
1350.
1647. |
| | PJPULA-
TION | 4301. | 6361.
6223.
7953.
7502. | 9097.
3401.
10342.
9256.
11258. | 12368.
10038.
12593.
10004.
13031. | VACANT
(AVAIL)
ACRES | 1505. | 1049.
1087.
713.
807. | 513.
597.
358.
486.
250. | 212.
465.
143.
435.
91. |
| MUNA 4 | | 1960 | 1980 LOW
1980 LOW
1990 HIGH
1900 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1990 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LDW
7040 HIGH
2040 LDW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 4535. | 13981.
13376.
16938.
15039. | 18402.
16925.
21120.
18227.
23866.
20008. | 26000.
21751.
28000.
30000.
25000. | ACº ES | 8864. | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
|-----------|----------------------------------|-------------|--|---|--|--------------------------------|--------------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 144. | 500.
500.
2337.
2085. | 2985.
3094.
4034.
4136.
4735. | 5822.
6113.
6950.
7391.
7807. | TOTAL A | 88 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | :: |
8 | | | RESTRICT
DOEN
SPACE AC | 950. | 971.
970.
971. | 971.
971.
971.
971. | 971.
971.
971.
971. |
| | MANUF'S | 92.
132. | | | | STREETS/
HIGHWAYS
ACRES | 406. | 734.
719.
762. | 762.
766.
762.
772.
762. | 780.
800.
797.
827.
803. |
| | *DRY*
MANUF'S
EMPLOYMT | 2409. | 8236.
7088.
8792.
7449. | 8780.
7479.
8836.
7525.
8889. | 8629.
7391.
8683.
7434.
8432.
7291. | EXTENSIV
INSTITUT
ACRES | 1627. | 1627.
1627.
1627.
1627. | 1627.
1627.
1527.
1627.
1627. | 1627.
1627.
1527.
1627.
1627. |
| | HIGH
INCOME
HH'S | 675. | 1319.
1287.
961.
1142. | 769.
886.
660.
760.
578. | 400.
469.
400.
400.
400. | EXTENSIV
INDUST'L
ACRES | 573.
573. | 573.
573.
573. | 573.
573.
573.
573. | 573.
573.
573.
573. |
| | UPPER
MIDDLE
INC HH'S | 736. | 1457.
1418.
1639.
1662. | 1766.
1627.
1782.
1467.
1764. | 1625.
800.
1300.
700.
1200. | NET IND/
NON-MEG
ACRES | ÷. | 23.
74.
85. | 74.
152.
74.
221.
74.
272. | 114.
353.
156.
408. |
| | LOWER
MIDDLE
INC HH'S | 733. | 1256.
1226.
1455.
1443. | 1614.
1543.
1715.
1564.
1799. | 1828.
1200.
1784.
1200.
1742. | MET IND/
WANUF G
ACP ES | 13. | 56.
37.
50. | 60.
60.
41.
60. | 61.
43.
51.
60. |
| | LOW | 120. | 504.
480.
703.
651. | 841.
777.
950.
863.
1040. | 1089.
911.
1146.
915.
1202. | NET COM-
MEPCIAL
ACRES | 962. | 2412.
2372.
2495.
2437. | 2495.
2563.
2495.
2650.
2495.
2769. | 2885.
2848.
2982.
2672.
2983. |
| | THTAL
EMPLOY-
MENT | 7180. | 22720.
20968.
28074.
24581. | 39167.
27498.
33990.
29888.
37489. | 40451.
35256.
43633.
38825.
46239. | NET RES-
IDENT IAL
ACRES | 1223. | 2300.
2270.
2302.
2368. | 2302.
2137.
2302.
1929.
2302. | 2166.
1498.
2030.
1424.
1992. |
| | TOTAL
HOUSE-
HOLDS | 2264. | 4535.
4411.
4758.
4898. | 4834.
4834.
5108.
4654.
5181. | 4941.
3380.
4630.
3215.
4543. | . JS ED.
ACRES | 2202. | 4791.
4702.
4931.
4930. | 4892.
4931.
4841.
4841.
4931. | 4913.
4779.
4896.
4858.
4890. |
| Uat | POPULA-
TION | 10969. | 17865.
17406.
18211.
18717. | 19045.
18487.
18960.
17372.
19218. | 18379.
12914.
16926.
12014.
16531. | VACANT
(AVAIL)
ACRES | 3107. | 168.
273.
0. | 5.
27.
0.
72.
0.
162. | |
| s REntron | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HTGH
2010 HTGH
2010 HTGH
2020 HTGH
2020 HTGH | 2030 LCW
2030 LCW
2040 LCW
2040 LCW
2050 HIGH
2050 LCW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 466. | 1479.
1411.
2021.
1718. | 2750.
2644.
4035.
3436.
5448. | 7247.
5320.
9850.
6666.
11625. | CRES | .01 | | | |
|-------------|----------------------------------|-------|--|--|--|-------------------------------|-------|---|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 187. | 619.
512.
833.
730. | 1046.
1442.
1485.
1748. | 2311.
2283.
2983.
2828.
3516. | TOTAL ACRES | 12070 | | | |
| | VERY WET
MANUF 'G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 1436. | 1441.
1440.
1458.
1454. | 1474.
1468.
1501.
1488.
1515. | 1523.
1499.
1540.
1502.
1564. |
| | MANUF'G
EMPLOYMT | 418. | 40.
35.
62. | 66.
53.
64.
56. | 60.
61.
52. | STREETS/
HIGHWAYS
ACRES | 374. | 569.
564.
599. | 630.
619.
679.
656.
716. | 756.
699.
816.
727.
872. |
| | MANUF'G | 104. | 400.
296.
531. | 524.
385.
569.
431.
634. | 828.
647.
950.
740.
1675. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 167. | 486.
476.
578.
552. | 683.
633.
804.
706.
940. | 1218.
951.
1385.
1014.
1753. | EXTENSIV
INDUST'L
ACRES | 262. | 262.
262.
262.
262. | 262.
262.
262.
262.
262. | 262.
262.
262.
262.
262. |
| | UPPER
MIDDLE
INC HH'S | 444. | 934.
925.
947. | 1029.
971.
1161.
1050.
1315. | 1557.
1287.
1758.
1303.
1998. | NET IND/
NON-MFG
ACRES | 140. | 200.
193.
215.
208. | 229.
231.
255.
258.
276. | 313.
311.
358.
348.
394. |
| | LOWFR
MI DOLE
INC HH'S | 1017. | 2067.
2038.
2260.
2173. | 2455.
2318.
2683.
2469.
2924. | 3212.
2758.
3536.
2819.
3891.
2859. | NET IND/
MANUF'G
ACRES | 102. | 54.
59.
54. | 58.
54.
60.
55.
61. | 67.
60.
70.
63.
91. |
| | LOW
INCOME
HH'S | 203. | 425.
412.
539.
501. | 646.
750.
680.
854. | 980.
860.
1081.
866.
1169.
860. | MERCIAL
ACRES | 136. | 328.
323.
364. | 413.
405.
498.
458.
592.
522. | 712.
584.
886.
674.
1004. |
| | TOTAL
EMPLOY-
MENT | 1175. | 2538.
2253.
3448.
2865. | 4386.
4161.
6110.
5401.
7886. | 10446.
8250.
13843.
10234.
16868. | NET RES- | 716. | 1539.
1519.
1730.
1670. | 1913.
1828.
2204.
2056.
2366. | 2449.
2118.
2647.
2155.
2910.
2236. |
| | TOTAL
HOUSE-
HOL DS | 1831. | 3912.
3851.
4324.
4148. | 4813.
4519.
5398.
4905.
5034. | 6967.
5856.
7760.
6002.
8811. | .USED!
ACRES | 1928. | 2122.
2086.
2367.
2275. | 2613.
2519.
3017.
2828.
3295. | 3541.
3074.
3961.
3239.
4398. |
| RELL INGHAM | PJPULA-
TION | 6774. | 14881.
14652.
16014.
15362. | 17824.
16735.
19447.
17675.
21135. | 24402.
20514.
27175.
21024.
30854. | VACANT
(AVATL)
ACRES | 8905. | 7676.
7718.
7383. | 7090.
7202.
5611.
6835.
6280. | 5988.
6537.
5490.
6340.
4973. |
| 6 RELLI | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LDW
2040 HIGH
2040 LDW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 I OW | 2000 HIGH
2000 LPW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 WICH
2030 LOW
2040 HICH
2040 LOW
2050 HIGH
2050 LOW |

METRIPOLITAN DISTOICT COMMISSION——WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | | 1 | 3 | 9 | 9 | | > 200 | . 1479 | × 60 × | TADILET | MAN |
|--|---|-----|---|---|---|---|-------------------------------|--------------------------------------|------------------------------|---|---|
| ш | EMP L OY- | | INCOME | WIDDLE
INC HH'S | WIDDLE
INC HH'S | INCOME | MANUF 6 | MANUF.G | MANUF G | NON-4FG.
EMPLOYMT | CIAL |
| 8677. 3330.
9287. 4519. | 3330. | | 921. | 3031. | 1916. | 3282. | 189. | 28. | •• | 901. | 2303. |
| 9493. 5052.
9375. 4636.
9688. 4860.
9413. 4404. | 5052.
4636.
4860.
4404. | | 1041.
1020.
1200.
1137. | 3332.
3282.
3620.
3486. | 2483.
2456.
2450.
2395. | 2637.
2617.
2418.
2396. | | 60.
52.
56. | | 1875.
1553.
1975. | 3117.
3031.
2829.
2565. |
| 9029. 4705.
9029. 4611.
9449. 4932.
9937. 4825.
9621. 4976. | 4705.
4611.
4932.
4825.
4976. | | 1316.
1229.
1402.
1288.
1471. | 3795.
3611.
3991.
3733.
4177. | 2192.
2139.
2081.
1998.
2024. | 2071.
2049.
1974.
1918.
1950. | | 57.
54.
54.
45. | | 2003.
1956.
2135.
2129.
2156. | 2646.
2597.
2743.
2743.
2775. |
| 9893. 5179.
8704. 5174.
1939. 5399.
8431. 5464.
10219. 5245. | 5179.
5174.
5399.
5464.
5245. | | 1543.
1580.
1589.
1500.
1645. | 4419.
4000.
4561.
4001.
4701. | 1949.
1507.
1879.
1797. | 1982.
1697.
2010.
1531.
2075. | | 48.
48.
23.
23. | | 2245.
2341.
2341.
2485.
2337. | 2887.
2832.
3009.
2977.
2885. |
| NET RES- NE
USED* IDENTIAL N | | 7 2 | MERCIAL
ACRES | MANUF GACRES | NET IND/
NON-MFG
ACRES | EXTENSIV
INDUST L
ACRES | EXTENSIV
INSTITUT
ACRES | STREETS/
HIGHWAYS
ACRES | PESTPICT
OPEN
SPACE AC | TOTAL AC? | ICPES |
| 1674. 1476.
1863. 1579. | 1476. | | 189. | 3.5 | .: | 34. | •• | 420. | 364. | 2 | 2982. |
| 1952. 1623.
1930. 1599.
1978. 1665.
1884. 1606. | 1623.
1599.
1665.
1606. | | 257.
249.
233. | . · · · · | 72.
51.
79. | 34.
34.
34. | ، ، · · · | 456.
448.
458.
444. | 367.
369.
369. | | |
| 1858. 1559.
1766. 1474.
1931. 1617.
1799. 1693.
1978. 1660. | 1559.
1474.
1617.
1493.
1660. | | 218.
213.
224.
216.
226. | | 81.
78.
90.
89. | 34.
34.
34.
34. | | 463.
453.
453.
458.
458. | 366.
373.
375.
375. | | |
| 2010. 1678.
1812. 1479.
2049. 1703.
1785. 1433.
2068. 1733. | 1678.
1479.
1703.
1433.
1733. | | 234.
279.
242.
233.
235. | | 104.
103.
113.
103. | 34.
34.
34.
34. | | 463.
441.
468.
470.
442. | 377.
378.
380.
380. | No. To being | |

1960 - 2050 METROPOLITAN DISTOICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS

5996. 4298. 8262. 5586. 10019. 323. 565 1565. 1526. 3272. 2658. 4370. COMMER-CIAL EMPLOYMT 102. TOTAL ACPES 8435 160. 590. 657. 1139. 1396. 1489. 2556. 2515. 3122. 3023. 1936. INDUST./ NON-MEG. EMPLOYMT0 346. 343. 298. 388. 381. 447. 490. 479. 613. 509. ö 466 VERY WET MANUF G EMPLOYMT 506. 292. SPACE AC 159. 63. 55. 165. 179. 135. 174. 127. 158. 275. 274. 342. 335. 400. 484. 543. 504. 581. 503. 655. 533. 734. 164. 166. STREETS/ HIGHWAYS ACRES MANUF .G 246. .0 200. 50. 29. 82. MANUF 6 EXTENS IV INSTITUT ACRES 00 21. 117. 117. 117. 117. 1426. 1815. 2586. 117. 117. 117. 117. 117. 117. 950. 2077. EXTENSIV INDUST .L ACRES 1137. 117. HISH 22. 32. 237. 232. 508. 456. 2527. 947. 25. 818. 1168 1872. 1521 2188. 1558 NET IND/ NON-MFG ACRES HIDDLE INC HH'S 1145. 51. 116. 1485. 17. 17. 16. 17. 686. LOWER MIDDLE NET IND/ MANUF'G ACPES 284. 1570. 926. 962 1338, 1405 5. 1197. 1942. 2328. 99. 447. 3. 490. 325. 339. 275. 152. 149. 266. 225. 598. 420. 716. 274. 68 388. 201. NET COM-43. NC JA 700. 692. 1302. 1767. 1687. 2429. 3080. 2481. 3605. 2618. 4269. 2633 2334. 2318. 4591. 4022. 5937. 5016. 6378 13499. NET RES-IDENTIAL ACRES 547. 8225 1274. FMPL OY 11066. 8146. 3577. 2860. 4262. 3091. 5054. 3560. 1951. 1867. 2733. 2506. 3289. 2485. 2189. 3409. 2860. 4382. 5646. 4478. 6697. 4752. 8324. 1368 792. 781 1428. 1619. ACRES TOTAL HOUSE-HOLDS 546. 3655. 4489. 2847. 4216. 1918. 5579. 5678. 4653. 4923. 6953. 5965. 6202. 6273. 8697. 7663. 11932. 10010. 14898. 19196. 15225. 22770. 16158. 27281. VACANT (AVAIL) ACRES 2960. 2877. 5667. PPPULA. 7234. 2155. REGL IN 2030 HIGH 2030 1 0W 2040 HIGH 2050 HIGH 2050 HIGH 1980 HIGH 1980 LOW 1990 HIGH 1990 LOW 2010 HIGH 2010 LIW 2010 HIGH 2020 HIGH 2020 LOW 2030 HIGH 2030 LOW 2040 HIGH 2050 HIGH 2050 HIGH 1990 HIGH 1990 HIGH 1990 LOW 2000 HIGH 2000 LOW 2010 HIGH 2020 HIGH 2020 LOW 1960

METROPOLITAN DISTPICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMER-
CIAL
EMPLOYMT | 2585. | 6999.
6681.
8420.
1. 7450. | 8989.
8340.
9878.
2. 8704.
10151.
9. 8735. | 1. 8784.
1. 11273.
7. 9028.
11437.
3. 9575. | ACRES | 9830. | | | |
|-----------|----------------------------------|-----------------|--|--|---|-------------------------------|-------|--|---|--|
| | INDUST./
NON-4FG.
EMPLOYMT | 1178. | 3884.
3213.
4427.
3951. | 4531.
4315.
4784.
4592.
4685. | 4788.
464
4943.
4943.
4943. | TOTAL | | 1000 | | |
| | VERY WET MANUF 'G | •• | | | •••• | RESTRICT
DPEN
SPACE AC | 1227. | 1265.
1262.
1299.
1295. | 1316.
1310.
1334.
1321.
0551. | 1344.
1347.
1347.
1349. |
| | MANJF G | 257.
158. | 298.
258.
394. | 398.
331.
397.
328.
393. | 376.
208.
358.
153.
268. | STREETS/
HIGHWAYS
ACRES | 751. | 950.
926.
1052.
1018. | 1098.
1067.
1151.
1106.
1177. | 1182.
1082.
1199.
1204.
1101. |
| | MANUF 'G | 4747. | 3703.
2742.
3858.
2828. | 3852.
2839.
3863.
2843.
3693. | 3618.
2450.
3441.
2263.
3114. | EXTENSIV
INSTITUT
ACRES | *** | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | ***** | |
| | HIGH
INCOME
HH'S | 1807. | 2478.
2421.
2995.
2864. | 3400.
3185.
3759.
3401.
4090. | 4400.
3656.
4400.
3705.
4400. | EXTENSIV
INDIST L
ACRES | 367. | 367.
367.
367. | 367.
367.
367.
367.
367. | 367.
367.
367.
367.
367. |
| | HIDDLE
INC HH'S | 2840. | 3898.
3818.
4600.
4393. | 5219.
4872.
5783.
5242.
6297. | 6800.
5648.
6800.
5669.
5723. | NET IND! B | 28. | 188.
143.
224.
192. | 231.
216.
248.
235.
243. | 249.
250.
260.
250.
250. |
| | LOWER MIDDLE | 4134. | 6024.
5909.
6637.
6513. | 7397.
7189.
8262.
7823.
9141. | 10000.
8812.
10200.
9017.
10400. | MET IND/
MANUF G
ACPES | 112. | 90.
67.
96. | 96.
71.
96.
71.
92.
65. | 90.
60.
85.
76. |
| | LOW
INCOME
HH'S | 1663. | 1613.
1583.
1894.
1791. | 2121.
1992.
2343.
2175.
2553. | 2678.
2404.
2900.
2414.
3000.
2402. | NET COM-
MERCIAL
ACRES | 205. | 529.
507.
623.
559. | 661.
618.
720.
642.
739. | 765.
813.
824.
700. |
| | EMPLOY- | 8767.
10220. | 14884.
12894.
17099.
14557. | 17770.
15825.
18922.
16468.
18922.
16137. | 19330.
16083.
20015.
16240.
19762. | NET RES-
INENTIAL
ACPES | 2662. | 3721.
3663.
4401.
4316. | 4735.
4608.
5085.
4880.
5302. | 5293.
4663.
5346.
4698.
5384. |
| | HOUSE-
HOLDS | 10444. | 14013.
13731.
15126.
15562. | 19137.
17238.
20147.
18640.
22082.
19782. | 23878.
20521.
24300.
20805.
24600. | ·USED ·
ACRES | 3008. | 4527.
4381.
5343.
5138. | 5723.
5514.
6149.
5828.
6375. | \$398.
\$600.
\$505.
\$565.
\$744. |
| 410 | POPUL A-
TION | 36108. | 46084.
45179.
52845.
51038. | 59280.
56402.
63697.
59025.
69694. | 75254.
64856.
74141.
53657.
75041.
64659. | VACANT
FAVATET | 4433. | 2677.
2850.
1725.
1968. | 1283.
1528.
785.
1162.
523. | 494.
1398.
368.
1331.
323. |
| 4 prycoly | | 1960 | 1980 HICH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LPW
2010 HIGH
2010 I DW
2020 HIGH
2020 I ICH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1900 HIGH
1900 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LOW
2010 LOW
2010 HIGH
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| COMMER-
CIAL
EMPLOYMT | 1226. | 6706.
6296.
7000. | 9606.
11481.
11283.
14600. | 16361.
14295.
18945.
15448.
20541. | SE : | • | | | |
|-------------------------------|--------------|--|---|--|--------------------------------|--------|--|---|--|
| INDUST./
NON-MFG. | 205. | 2328.
1915.
3800.
3300. | 4252.
4267.
5019.
5152.
5616. | 6132.
6336.
6734.
6837.
7150. | TOTAL ACRES | 16614. | | | |
| MANUF'G | 66 | | | | RESTRICT
OPFN
SPACE AC | 1439. | 1472.
1469.
1536.
1524. | 1563.
1548.
1600.
1577.
1615. | 1615.
1587.
1637.
1587. |
| WET.
MANUF.G
EMPLOYMT | 438. | 424.
577. | 587.
484.
584.
575. | 577.
306.
566.
200.
509. | STREETS/
HIGHWAYS
ACRES | 910. | 1287.
1268.
1374.
1350. | 1430.
1418.
1508.
1475.
1713. | 1726.
1640.
1775.
1650.
1894. |
| OPY .
MANUF 'G
EMPLOYMT | 1272. | 1518.
1298.
1723.
1404. | 1717.
1421.
1752.
1459.
1811. | 1946.
1614.
2020.
1663.
1743. | EXTENSIV
INSTITUT
ACRES | | | , w, w, | |
| HIGH
INCOME
HH'S | 540. | 1351.
1322.
1630.
1560. | 1841.
1732.
2018.
1843.
2174. | 2261.
1932.
2305.
1873.
2379. | EXTENSIV
INDUST'L
ACRES | 418. | 418.
418.
418.
418. | 418.
418.
418.
418.
418. | 418.
418.
418.
418.
418. |
| INC HH'S | 1373. | 2568.
2530.
2878.
2770. | 3138.
2966.
3363.
3111.
3550. | 3505.
3094.
3525.
2786.
3520. | NET IND/
NON-MEG
ACRES | 77. | 140.
126.
189.
172. | 204.
229.
234.
249. | 267.
273.
287.
290.
300. |
| LOWER
MI DOLE
INC HH'S | 2186. | 4328.
4254.
5033.
4792. | 5633.
5279.
6223.
5696.
6796. | 6238.
7706.
6331.
8217. | MET IND/
MANUF G
ACRES | 158. | 167.
159.
175. | 175.
164.
176.
165.
178. | 182.
161.
183.
158.
160. |
| LOW | 454.
816. | 1058.
1030.
1333.
1242. | 1570.
1453.
1793.
1637.
2025.
1800. | 2201.
1959.
2359.
1966.
2500. | MERCIAL
MERCIAL
ACRES | 335. | 564.
537.
584. | 703.
757.
882.
869.
1090. | 1208.
1070.
1380.
1147.
1486. |
| TOTAL
FMPLOY-
MENT | 2271. | 11046.
9934.
13100.
12184. | 15353.
15778.
18836.
18373.
22603. | 25016.
22554.
28266.
24147.
29943. | NET RES-
IDENT IAL
ACRES | 3607. | 4422.
4347.
5140.
4965. | 5437.
5232.
5847.
5554.
6014. | 5933.
5212.
5955.
5107.
6075. |
| TOTAL
HOUSE-
HOLDS | 4553. | 9306.
9135.
10875.
10363. | 12182.
11430.
13398.
12287.
14545. | 15162.
13223.
15896.
12956.
15616. | USED.
ACRES | 4178. | 5293.
5168.
6088.
5984. | 6357.
6357.
7135.
6922.
7532. | 7489.
6716.
7805.
6702.
8022. |
| TOTAL
POPULA-
TION | 17867. | 35750.
35102.
40625.
38732. | 44243.
41538.
48521.
44623.
51297. | 51939.
45346.
52845.
53144.
53559. | VACANT
(AVATL)
ACRES | 9438. | 8140.
8286.
7193. | 5577.
6868.
5948.
6317.
5331. | 5361.
6248.
4985.
6252.
4729. |
| IN BILLFRICA TO POP | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HICH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW | | 1970 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LNW
2040 LNW
2040 LNW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPL TYMT | 41. | 502.
490.
525. | 874.
877.
1671.
1434.
2963. | 4200.
3500.
6000.
4700.
8000. | ACRES | * | | | |
|------------|----------------------------------|-------------|------------------------------------|---|--|-------------------------------|--------|--------------------------------------|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 36. | 93.
114.
101. | 209.
250.
480.
534.
791. | 1444.
1413.
2229.
2173.
2875. | TOTAL A | 12794. | | | |
| | MANUF G | •• | | | | RESTRICT
OPEN
SPACE AC | 716. | 724.
724.
757. | 777.
816.
895. | 911.
946.
966.
1040. |
| | MANUF.G
EMPLOYMT | 16. | 19.
17.
54. | 55.
333.
54.
48. | 50.
51.
55. | STREETS/
HIGHWAYS
ACRES | 248. | 342.
338.
381. | 408.
403.
462.
447.
524. | 602.
528.
636.
567.
785. |
| | MANUF G | 283. | 496.
373.
604. | 593.
467.
687.
574.
807. | 1451.
1306.
1672.
1509.
1280. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 64.
132. | 336.
319.
640.
593. | 936.
843.
1252.
1052.
1612.
1259. | 2254.
1711.
2698.
1909.
3591.
2687. | EXTENSIV
INDUST*L
ACRES | 41. | 41.
41.
41. | 41:
41:
41:
41: | 41.
41.
41.
41. |
| | MIDDLF
MIDDLF
INC HH'S | 104. | 252.
245.
390.
361. | 571.
856.
713.
1275. | 2592.
1597.
3237.
1675.
3996. | NET IND! B | -: | 4 R | 12.
30.
33.
51. | 94.
92.
146.
190. |
| | L CWER
MI DOLE
INC HH'S | 139. | 180.
178.
238.
221. | 326.
296.
486.
740.
571. | 1521.
963.
2127.
1122.
2801. | MET TND/ | ÷. | 12.
9.
16. | 16.
18.
18.
14.
21. | 36.
42.
36.
32. |
| | LOW
INCOME
HH'S | 53. | 75.
89.
84. | 129.
123.
196.
182.
280.
244. | 436.
370.
581.
380.
695. | MEDITAL
MEDITAL
ACRES | 46. | 563.
550.
564.
550. | 584.
641.
613.
727. | 809.
750.
929.
830.
1062. |
| | EMPL OY- | 88. | 1110.
957.
1297.
1069. | 1680.
1626.
2892.
2546.
4610. | 7155.
6219.
9952.
8383.
12210. | NET RES-
INENTIAL
ACRES | 165. | 440.
431.
809.
786. | 1033.
1465.
1359.
1910. | 2522.
1795.
3132.
1942.
3949. |
| | T97AL
H0155-
H91.05 | 360. | 842.
814.
1358.
1259. | 1961.
1772.
2790.
2360.
3907. | \$603.
\$642.
\$632.
\$1082.
\$222. | ACRES | 212. | 1019.
993.
1394.
1352. | 1644.
1598.
2153.
2019.
2708. | 3462.
2668.
4749.
2952.
5233.
3454. |
| | POPULA-
TION | 1264. | 3032.
2932.
4887.
4532. | 7058.
5380.
9764.
8260.
13673. | 23911.
16248.
20350.
17291.
37679. | VACANT
(AVATL)
ACRES | 11577. | 10657.
10698.
10221.
13271. | 9923.
9977.
9321.
9480.
9554. | 7777.
8710.
6851.
8374.
5695. |
| 11 RPL TON | | 1940 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HICH
2000 LOW
2010 HIGH
2010 LOW
2020 HICH
2020 LOW | 2030 HTCH
2030 LNV
2040 LNV
2040 LNV
2050 HTCH
2050 LNV | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2010 HIGH
2010 LOW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLLITAN DISTRICT COMMISSION—-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| | COMMER-
CIAL
EMPLOYMT | 99. | 276.
256.
685.
502. | 1316.
1282.
2325.
1922.
3343.
2620. | 5319.
3757.
7992.
5342.
9519. | ACP ES | 6656. | | | |
|------------|----------------------------------|-------------|---|---|--|-------------------------------|--------------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 7. | 280.
235. | 471.
525.
782.
841.
1006. | 1617.
1624.
2307.
2244.
2767. | TOTAL A | \$ | | * \$4 | |
| | VERY WET MANUF'S | •• | | | | RESTRICT
OPEN
SPACE AC | 565. | 565.
565.
601. | 629.
626.
666.
656.
694. | 706.
679.
740.
782.
782. |
| | MANUF G | •• | | | | STREETS/
HIGHWAYS
ACRES | 161. | 207. | 292.
292.
351.
335.
396. | 443.
387.
520.
426.
582. |
| | .DRY.
MANUF'G | :: | 69.
37.
153.
87. | 149.
156.
117.
190. | 381.
280.
762.
560.
516. | EXTENSIV
INSTITUT
ACRES | :: | | | |
| | HIGH
INCOME
HH'S | 36. | 308.
292.
696.
639. | 1043.
935.
1352.
1145.
1658. | 2054.
1595.
2340.
1731.
2889. | EXTENSIV
INDUSTIL
ACRES | 43. | 43.
43. | 43.
43.
43.
43. | 43.
43.
43.
43. |
| | WIDDLE
WIDDLE
INC HH'S | 52.
133. | 217.
210.
483. | 799.
1126.
933.
1479. | 1919.
1544.
2298.
1589.
2701. | NET IND/
NON-MFG
ACRES | . 6 | 16.
14.
27.
24. | 39.
60.
75. | 116.
116.
162.
193. |
| | HIDDLE
TINC HHIS | 66. | 150.
147.
291.
25°. | 458.
404.
649.
551.
876. | 1232.
959.
1594.
1058.
1970. | NET IND/ PANUF G | •• | 2.
4. 1. | 4 v v
" " , 4 | 11.
8.
22.
16.
15. |
| | LOW
INCOME
HH'S | 18. | 53.
51.
73. | 112.
103.
158.
141.
210. | 318.
254.
415.
262.
494. | NET COM-
MERCIAL
ACRES | 20. | 43.
71.
59. | 113.
111.
180.
153.
248.
200. | 380.
276.
558.
381.
660. |
| | EMPL OY- | .,114. | 462.
389.
1118.
824. | 1936.
1905.
3274.
2880.
4539. | 7317.
5661.
11060.
8146.
12803. | NET RES-
INENTIAL
ACRES | 109. | 459.
450.
863. | 1170.
1123.
1577.
1459.
1892. | 2028.
1626.
2403.
1722.
2872.
1953. |
| | TOTAL
HOUSE-
HOLDS | 173. | 728.
700.
1545.
1400. | 2411.
2135.
3285.
2770.
4224. | 5522.
4353.
5647.
4640.
8054. | .USED. | 132. | 520.
508.
965. | 1327.
1279.
1822.
1679.
2221. | 2535.
2026.
3144.
2277.
3739. |
| вехвоячисн | POPULA-
TION | 744. | 2620.
2522.
5560.
5040. | 8580.
7685.
11497.
9694.
14784. | 19328.
15234.
22599.
15777.
27385. | VACANT
(AVAIL)
ACRES | 5756. | 5321.
5335.
4791.
4840. | 4416.
3774.
3943.
3302. | 2929.
3521.
2209.
3223.
1509. |
| 12 BUXB | | 1960 | 1980 HIGH
1980 I CM
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960
1970 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HTGH
2000 LOW
2010 HTGH
2010 LOW
2020 HTGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | NON-MEG. CIAL | 67. 108.
64. 150. | 129. 198.
107. 190.
200. 350.
200. 350. | 800. 1500.
800. 1500.
1400. 3000.
1400. 3000.
2000. 5000. | 3228. 9126.
3259. 7571.
4680. 14895.
4694. 11273.
5679. 18405.
5687. 15261. | THTAL ACRES | 15610. | | | |
|-------------|--------------------|----------------------|--|--|--|-------------------------------|--------------|---|---|--|
| | MANUE 15 NO | •• | | | | RESTRICT
OPEN
SPACE AC | 1930. | 1960.
1959.
2042.
2037. | 2081.
2072.
2151.
2151.
2186.
2160. | 2206.
2160.
2251.
2171.
2305. |
| | MANUE . G | •• | 19.
16.
59. | | | STREETS/
HIGHWAYS
ACRES | 482.
555. | 540.
635.
735. | 802.
789.
951.
1021. | 1114.
1035.
1251.
1114.
1357. |
| | MANIIE 16 | | 54.
30.
100. | 300.
300.
900.
986. | 1729.
1259.
1920.
1429.
1495. | EXTENSIV
INSTITUT
ACRES | | | | |
| | INCOME | 175. | 790.
762.
1994. | 1357.
1252.
1623.
1425.
1898. | 2279.
1809.
2581.
1944.
3174. | EXTENSIV
INDUST*L
ACRES | 100. | 100. | 100.
100.
100.
100. | 100.
100.
100.
100. |
| | MIDDLE
INC HH'S | 190. | 427.
413.
630.
585. | 884.
1220.
1036.
1625. | 2232.
1803.
2747.
1864.
3294. | NET IND/
NON-WEG
ACRES | 10. | 14.
12.
18. | 58.
58.
98.
138. | 220.
222.
317.
384. |
| | MIDDLE
INC HHIC | 125. | 338.
328.
490.
452. | 671.
918.
798.
1228. | 1769.
1393.
2305.
1541.
2857. | NET IND!
MANUF.G
ACRES | •• | | 22.
22.
24. | 42.
47.
35.
37. |
| | INCOME | 57. | 73.
71.
88. | 168.
147.
327.
470. | 667.
552.
822.
564.
933. | NET COM-
MERCIAL
ACRES | 13. | 21.
21.
31. | 108.
108.
208.
208.
341. | 616.
513.
1001.
760.
1235. |
| | FMD LNY- | 175. | 400.
343.
709. | 2600.
5300.
5300.
7986. | 14082.
12090.
21495.
17395.
25580. | NET PES-
IDENTIAL
ACRES | 685. | 2043.
2008.
2959.
2876. | 3389.
3271.
4163.
3914.
4557. | 4776.
4145.
5278.
4263.
5879. |
| 1 | 40055-
401.05 | 548. | 1627.
1575.
2302.
2153. | 3079.
2804.
4089.
3516.
5219. | 6947.
8455.
8455.
10258.
6649. | · USEn. | 107. | 2079.
2042.
3012.
2929. | 3562.
3444.
4491.
4243.
5061. | 5654.
4911.
6643.
5376.
7534. |
| יארו | POPULA-
TION | 2010. | 5985.
8518.
7364. | 11084.
10095.
14716.
12656.
18259. | 24316.
19451.
29594.
20694.
35902. | VACANT
(AVAIL)
ACRES | 12391. | 10831.
10874.
9720.
9818. | 9065.
9204.
7918.
8211.
7242. | 6536.
7404.
5365.
6849.
4314. |
| 13 RAX STRD | | 1960 | 1980 HICH
1990 HICH
1990 HICH | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HICH
2030 LOW
2040 HICH
2040 LOW
2050 HIGH
2050 HIGH | | 1960 | 1980 HTCH
1980 LOW
1900 HTGH
1990 I GW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 2766. | 10593.
10302.
11500.
11500. | 11763.
12122.
12202.
12115.
12754. | 13392.
12473.
14452.
12855.
14682. | CRES | 9222. | | | |
|-----------|----------------------------------|--------|--------------------------------------|--|---|-------------------------------|-------|-------------------------------------|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 740. | 4845.
4012.
5201.
4671. | 5319.
5136.
5587.
5683.
5584. | 5992.
5852.
6358.
6185.
6466. | TOTAL ACRE | 6 | | F1 40 | |
| | VERY WET MANUF 'G | 16. | .,,,, | | | RESTRICT
OPEN
SPACE AC | 1826. | 1844.
1843.
1860.
1856. | 1863.
1875.
1869.
1860. | 1880.
1872.
1884.
1885. |
| | MANUF G | 1338. | 1317.
1078.
1346.
1089. | 1226.
1200.
1100.
1000. | 675.
617.
617.
447.
467. | STREETS/
HIGHWAYS
ACRES | 871. | 1091.
1066.
1148. | 1176.
1160.
1198.
1179.
1217. | 1245.
1175.
1175.
1259. |
| | .DRY.
MANUF.G
EMPLOYMT | 2988. | 3089.
2201.
2317.
1800. | 2000.
2000.
1700.
1700.
1500. | 1025.
1063.
692.
719.
599. | EXTENSIV
INSTITUT
ACRES | 2. | 2, 2, | 2 2 2 | |
| | HIGH
INCOME
HH'S | 2041. | 2442.
2411.
2699.
2614. | 2925.
2783.
3138.
2908.
3332. | 3463.
2993.
3545.
2999.
3711. | EXTENSIV
INDUST'L
ACRES | 193. | 193.
193.
193.
193. | 193.
193.
193.
193. | 193.
193.
193.
193.
193. |
| | UPPER
MIDDLE
INC HH'S | 2767. | 3479.
3422.
3931.
3782. | 4326.
4094.
4676.
4338.
4980. | 5072.
4540.
5215.
4548.
5346. | NET IND/
NON-MFG
ACRES | 140. | 602.
547.
626.
591. | 634.
652.
652.
641.
658. | 679.
669.
703.
710. |
| | LOWER
MIDDLE
INC HH'S | 2963. | 4013.
3936.
4795.
4543. | 5462.
5104.
6104.
5578.
6727. | 6353.
6353.
7860.
6488.
8442. | NET IND!
MANIF'G
ACRES | 91. | 113.
84.
94. | 83.
72.
72.
64. | 47.
34.
32.
27.
26. |
| | INCOME
HH'S | 678. | 1015.
988.
1262.
1183. | 1494.
1390.
1715.
1571.
1936. | 2139.
1909.
2309.
1918.
2457. | NET COM-
MERCIAL
ACRES | 185. | 709.
690.
770. | 786.
809.
812.
808.
843. | 876.
828.
947.
962. |
| | EMPLOY- | 7055. | 19844.
17595.
20364.
19061. | 20308.
20458.
20589.
20344.
20937. | 21204.
20063.
22119.
20206.
22214. | NET RES-
IDENTIAL
ACRES | 2348. | 2796.
2753.
3195.
3098. | 3374.
3261.
3567.
3418.
3684. | 3623.
3268.
3721.
3284.
3824. |
| | HOUSE-
HOLDS | 8449. | 10949.
10756.
12687.
12122. | 14207.
13371.
15634.
14395.
16974. | 17944.
15795.
18929.
15953.
19957. | .USED. | 2497. | 4221.
4074.
4684.
4533. | 4877.
4774.
5102.
4939.
5249. | 5224.
4810.
5405.
4860.
5524. |
| BRAINTOFF | POPULA-
TION | 35053. | 39016.
38340.
43829.
41907. | 48998.
46156.
52285.
48195.
55011. | 59112.
59374.
50147.
60564. | VACANT
(AVAIL)
ACPES | 3832. | 1870.
2044.
1334.
1511. | 1112.
1230.
851.
1040.
682. | 735.
1178.
493.
1118.
356. |
| 14 BPAIN | | 1960 | 1980 HIGH
1990 HIGH
1990 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH
2020 LOW | 2030 HIGH
2030 LDW
2040 HIGH
2050 HIGH
2050 LDW
2050 LDW | | 1960 | 1990 HIGH
1990 HIGH
1990 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH
2020 LOW | 2030 HIGH
2040 HIGH
2040 HIGH
2050 LOW
2050 LOW
2050 LOW |

METRIPOLITAN DISTRICT COMMISSION--WASTEWATER STURY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 6455. | 6829.
6500.
6500. | 6300.
6100.
6100.
6000. | 6076.
5565.
6227.
5264.
5927. | CP ES | .1001 | | | |
|---------------|----------------------------------|------------|---|--|---|-------------------------------|--------------|--|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 1350. | 2588.
2147.
2510.
2235. | 2042.
2057.
1901.
1908.
1775. | 1917.
1859.
2049.
1947.
2083. | TOTAL ACP | 01 | | | |
| | VERY WET MANUF'S | :: | 2.
27.
20. | | | PESTRICT
OPEN
SPACE AC | 72. | 74.
74. | 74.
74.
74.
74. | 74.
74.
74.
74. |
| | MANUF G | 37.
13. | | | | STREETS/
HIGHWAYS
ACRES | 258. | 273.
270.
272.
269. | 265.
261.
261.
261.
257. | 259.
253.
253.
256.
263. |
| | *DPY*
MANUF *G
EMPLOYMT | 307. | 100. | 99.
103.
52.
0. | 200. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 3310. | 3217.
3201.
3062.
3048. | 2838.
2867.
2670.
2729.
2532. | 2200.
2200.
2100.
2100.
2000. | EXTENSIV
INDUST'L
ACRES | ÷.* | | | |
| | HIDDLE INC HH'S | 2002. | 2909.
2897.
2616.
2625. | 2359.
2404.
2181.
2252.
1985. | 1800.
1800.
1800.
1800.
1800. | NET IND/
NON-MEG
ACRES | 45. | 85.
55.
82.
61. | 62.
62.
58.
58. | 68.
77.
61.
79. |
| | LOWER MI DOLE | 3408. | 4883.
4819.
5227.
5057. | 5149.
5079.
4975.
4974.
4731. | 4600.
4700.
4700.
4700.
4700. | NET TND/
MANUE G
ACOES | :: | 0.
2. | 0.1.00.00 | 000, |
| | I NCOM F | 2374. | 1617.
1606.
1801.
1742. | 1993.
1911.
2143.
2038.
2231. | 2400.
2400.
2400.
2300.
2500. | NET COM-
MEPCIAL
ACRES | 92. | 111.
107.
102.
102. | 96. | 96.
88.
106.
83.
101. |
| | EMPLOY- | 8149. | 9620.
8978.
9137.
8854. | 8440.
9460.
8001.
8060.
7775. | 7993.
7423.
8276.
7211.
8210. | NET RES-
IDENTIAL
ACRES | 484. | 542.
578.
553.
564. | 525.
548.
503.
524.
478. | 473.
490.
478.
485.
478. |
| | TOTAL
40USE-
HOLDS | 10588. | 12626.
12523.
12707.
12472. | 12339.
12262.
11969.
11993.
11479. | 10900.
10800.
11000.
10700.
11000. | ACRES | 632. | 738.
741.
740. | 693.
705.
661.
673.
630. | 636.
633.
660.
629.
640. |
| REJUKLINE (D) | POPULA- | 29321. | 32529.
32271.
32729.
32143. | 31810.
31618.
30886.
30947.
29661. | 28213.
27363.
28463.
27713.
28463. | VACANT
(AVATL)
ACRES | 122. | 0.
1.
13. | 54.
41.
90.
77.
124. | 117.
122.
89.
126.
88. |
| IS ROTH | | 1960 | 1980 HIGH
1980 LIW
1990 HIGH
1990 I DW | 2000 HICH
2000 LCW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HTCH
2030 LCM
2040 HTCH
2050 HTCH
2050 LCM
2050 LCM | | 1960
1970 | 1980 HJCH
1980 LOW
1990 HJCH
1990 LOW | 2000 HTCH
2000 LCW
2010 HTGH
2010 LCW
2020 HTGH
2020 LCW | 2030 HICH
2070 LIN
2040 HIGH
2050 HICH
2050 HICH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
FMPLOVMT | 4699.
5412. | 5206.
5075.
5109.
4708. | 5172.
4707.
5211.
4600.
5090. | 5458.
4542.
5817.
4783.
5813. | ACPES | • | | | |
|---------------|----------------------------------|-----------------|--|--|---|-----------------------------------|--------------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 456.
576. | 1000.
1000.
1546.
1510. | 1768.
1865.
2066.
2181.
2184. | 2522.
2586.
2832.
2898.
2976. | TOTAL AC | 3274. | | | |
| | VERY WET I | | 1.
66.
45. | | | RESTRICT
OPEN
SPACE AC | 555. | 352.
352.
352.
353. | 352.
352.
354.
354.
354. | 352.
354.
354.
354. |
| | MANUF'G
EMPLOYMT E | ;; | | * * 0 | •••• | STREETS/ R
HIGHWAYS
ACRES S | 474. | 430.
430.
432. | 430.
421.
430.
422.
421. | 427.
410.
435.
409.
430.
415. |
| | MANUF 'G | 84. | | | 200. | EXTENSIV S
INSTITUT H
ACRES | 66 | | | |
| | HIGH
INCOME
HH'S | 3726. | 4610.
4632.
4839.
4822. | 4994.
4335.
4505.
3911.
3813. | 3117.
2421.
2668.
2085.
2218. | EXTENSIV EINDUSTIL I | 27. | 17.
17.
17. | 17:
17:
17:
17:
17: | 17.
17.
17.
17.
17. |
| | H TOOL F | 1444. | 2379.
2324.
2796.
2605. | 3258.
2732.
3578.
2864.
3751. | 3999.
2961.
3961.
2885.
3681. | NET IND/ E
NON-MFG I
ACPES | 22. | 18.
19.
18.
20. | 18.
24.
24.
33.
27. | 34.
40.
40.
43.
52. |
| | LOWER
MIDDLF
INC HH'S 1 | 1463. | 2710.
2636.
3159. | 3600.
3348.
3978.
3596.
4278. | 4652.
3982.
4942.
4043.
5120. | NET IND! NANUE G | 3. | | | |
| | INCOME
HH'S | 1624. | 1123.
1084.
1367.
1275. | 1486.
1454.
1585.
1591.
1666. | 1819.
1805.
1992.
1814.
2149.
1803. | NET COM- P
MERCIAL
ACRES | 429.
312. | 301.
293.
295.
272. | 295.
272.
297.
290.
290. | 308.
262.
336.
333.
308. |
| | FMPL DY- | 5247. | 6208.
6076.
6720.
6264. | 6944.
6573.
7280.
6780.
7274. | 7981.
7128.
8710.
7681.
8989. | NET RES- I | 1665. | 2157.
2163.
2162.
2181. | 2162.
2060.
2144.
2075.
2055. | 2066.
1914.
2074.
1855.
2013. |
| | TOT AL | 8256.
10226. | 10822.
10676.
12161.
11774. | 13339.
11870.
13645.
11961.
13508. | 13487.
11169.
13563.
10827.
13167. | •USED • | 2118. | 2476.
2475.
2475.
2473. | 2475.
2359.
2466.
2374.
2372. | 2408.
2217.
2450.
2180.
2393.
2196. |
| REJUKLING (N) | POPULA- | 24723. | 28745.
28381.
32093.
31127. | 35038.
31366.
35804.
31594.
35461. | 35409.
29613.
35597.
28759.
34609. | VACANT
(AVATL)
ACRES | 100. | | 0.
125.
10.
107.
112. | 69.
277.
20.
313.
81.
292. |
| 16 Resnik | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 1 MW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LPW
2010 HIGH
2010 LDW
2020 HIGH
2020 LDW | 2030 HIGH
2030 LOW
2040 LIGH
2040 LOW
2050 HIGH
2050 LOW |

METODPOLITAN DISTOICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMED-
CIAL
FMPL NYWT | 1331. | 21500.
20576.
26912.
23674. | 27379.
24882.
28522.
24885.
29366.
24873. | 28800.
25000.
28400.
25000.
28000.
25000. | ACRES | 7603. | 100000 | 2000000
200000000000000000000000000000 | |
|----------------|----------------------------------|-------------|--------------------------------------|---|---|--------------------------------|----------------|-----------------------------------|--|--|
| | INDUST./
NON-MEG.
EMPLOYMT | 407. | 7579.
6260.
9876.
8762. | 9898.
9287.
10151.
9544.
9963. | 9868.
9657.
10501.
10647.
10220. | TOTAL A | 76 | | | |
| | MANIF G | | | | | RESTRICT
OPEN
SPACE AC | 575. | 594.
593.
636. | 636.
640.
636.
642.
636. | 636.
642.
639.
642.
643. |
| | MANUF'G | 66.
123. | •••• | | | STPEFTS/
HIGHWAYS
ACPES | 556. | 938.
908.
1056. | 1057.
1035.
1057.
1089.
1061. | 1007.
989.
1013.
979.
1012. |
| | MANIF G | 2730. | 4033.
3357.
4369.
3545. | 4362.
4382.
3574.
4396. | 4432.
4455.
4455.
4194. | EXTENSIV
INSTITUT
ACPES | 30. | 30.
30.
30. | 30.
30.
30.
30. | 30.
30.
30.
30. |
| | HISH
INCOME
HH'S | 703. | 1456.
1423.
1740.
1567. | 1715.
1767.
1633.
1685.
1514. | 1027.
1163.
1137.
975.
1362. | EXTENSIV
INDUST'L
ACPES | 450. | 450.
450.
450. | 450.
450.
450.
450.
450. | 450.
450.
450.
450. |
| | HOPEN HING HHIS | 1176. | 2417.
2369.
2824.
2705. | 2860.
2889.
2756.
2949.
2625. | 2300.
2200.
2304.
1900.
2297. | NET IND/
NON-MFG
ACRES | 55. | 442.
379.
542.
498. | 542.
523.
542.
532.
532. | 527.
539.
557.
559.
564. |
| | L CWER | 1149. | 2188.
2140.
2714.
2562. | 3024.
2898.
3218.
3113.
3361. | 2565.
3102.
2757.
3125.
2948. | MET IND/
MANIJF G
ACP ES | 230. | 190.
164.
199.
169. | 198.
169.
170.
199. | 200.
170.
200.
166.
189. |
| | LOW | 122. | 642.
614.
961.
872. | 1183.
1072.
1353.
1217.
1495. | 1529.
1369.
1581.
1374.
1650. | NET COM-
MERCIAL
ACRES | 76. | 1009.
963.
1256.
1118. | 1265.
1185.
1265.
1312.
1312. | 1287.
1191.
1269.
1191.
1251. |
| | TOTAL
EMPL NY- | 4534. | 33113.
30193.
41157.
35982. | 41638.
37731.
43056.
38003.
43725. | 43099.
38242.
43356.
38570.
42840.
38592. | VET PES-
IDENTIAL
ACRES | 787. | 2966.
2936.
3434.
3398. | 3424.
3424.
3424.
3381. | 2780.
2860.
2816.
2693.
2864. |
| | HUUSE-
HULDS | 3151. | 6703.
6545.
9239.
7805. | 8615.
8959.
8964.
8993.
8976. | 7421.
7834.
7780.
7374.
9256. | . USE
ACR ES | 1149. | 4697.
4441.
5430.
5183. | 5429.
5429.
5429.
5424.
5164. | 4793.
4761.
4842.
4609.
4887. |
| PIJOL I NGT ON | POPULA-
TION | 12852. | 26812.
26181.
32133.
30441. | 33373.
32743.
33150.
33166.
32377. | 25974.
27418.
25674.
24335.
26419. | VACANT
(AVAIL)
ACRES | 4844.
2156. | 983.
1181.
0.
296. | 0.
0.
68.
1. | 686.
730.
628.
892.
600. |
| 17 Pilot | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 416H
2029 LPW
2040 HIGH
2040 LPW
2050 HIGH
2050 LPW | | 1960 | 1980 4194
1980 104
1980 104 | 2000 HICH
2000 LOW
2010 HICH
2010 LOW
2020 HICH
2020 HICH | 2030 HIGH
2030 LPW
2040 HIGH
2040 LPW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| | COMMER-
CIAL
EMPLOYMT | 30000. | 39000.
39000.
37000. | 35500.
35000.
34000.
33000. | 32000.
32000.
31000.
30000. | CRES | +570. | | | |
|------------|----------------------------------|----------------|--|---|---|--------------------------------|-------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 16389. | 31222.
25949.
30000.
30000. | 28500.
28500.
27000.
26000.
26000. | 23703.
23938.
22351.
22636.
20665. | TOTAL ACRES | 45 | | | |
| | VERY WET MANUFIG | :: | 3.
0. | •••• | | RESTRICT
OPEN
SPACE AC | 870. | 871.
870.
876.
871. | 878.
871.
878.
878. | 878.
878.
871.
878. |
| | MANUF G | 9517. | 4000.
2000.
2000. | 1800.
1800.
1650.
1500.
1500. | 1025.
1025.
692.
692.
459. | STREETS/
HIGHWAYS
ACRES | 906. | 972.
971.
965. | 966.
966.
945.
927. | 908.
910.
898.
889.
889. |
| | MANUF GEMPLOYMT | 15983. | 14439.
9261.
13163.
8312. | 13019.
8316.
11824.
7381.
10367.
6200. | 10000.
10000.
7500.
10000.
8000. | EXTENSIV
INSTITUT
ACRES | ;; | ; * ; * | 3 ⁴ 3 ⁴ 3 ⁴ | ,*,*,* |
| | HIGH
INCOME
HH'S | 6473.
5862. | 5058.
5027.
5598. | 6518.
6110.
6198.
5835.
5514. | 4300.
4000.
3900.
3500.
3300. | EXTENSIV
INDUST'L
ACRES | 165. | 165.
165.
165.
165. | 165.
165.
165.
165.
165. | 165.
165.
165.
165.
165. |
| | UPPER MIDDLE | 8214. | 6478.
6440.
5824.
5856. | 500%.
5130.
4373.
4588.
3715. | 3400.
3800.
3800.
4200. | NET IND/
NON-MFG
ACRES | 245. | 457.
547.
439.
573. | 417.
544.
395.
381.
496. | 347.
327.
432.
303. |
| | LOWER
MIDDLE
INC HH'S | 14382. | 16645.
16431.
17557.
17040. | 18144.
17297.
18445.
17342.
18289. | 17175.
15000.
16911.
14000.
16987. | MET IND/
MANUF G
ACRES | 216. | 156.
112.
128.
87. | 125.
114.
100.
65. | 93.
91.
72.
89. |
| | LOW
I VCOME
HH · S | 5184. | 9034.
8867.
9963.
9642. | 10660.
10296.
11293.
10765.
11715. | 11700.
11500.
11500.
10500.
11300. | NET COM-
MERCIAL
ACRES | 453. | 625.
589.
586. | 563.
546.
535.
520.
515. | 492.
482.
475.
456.
456. |
| | TOTAL
EMPLOY- | 71889. | 88664.
78214.
82163.
77312. | 78819.
74116.
74474.
70831.
66700. | 66727.
63963.
64043.
61828.
61124. | NET RES-
IDENT JAL
ACRES | 1222. | 1320.
1311.
1406.
1324. | 1449.
1323.
1418.
1277.
1345. | 1287.
1119.
1271.
1068.
1266. |
| | TOTAL
HOUSE-
HOLDS | 34253. | 37216.
36765.
38942.
38228. | 40329.
38833.
40310.
38530.
39232. | 36575.
33300.
36111.
31800.
35987. | US FO .
ACRES | 2136. | 2558.
2559.
2560.
2553. | 2555.
2499.
2462.
2389.
2340. | 2219.
2127.
2163.
2039.
2114. |
| CAMBR TOGE | TOTAL
POPULA-
TION | 107715. | 101166.
100083.
105306.
103593. | 105046.
105946.
108590.
104220.
106005. | 99626.
91767.
98512.
88167.
98216. | VACANT
(AVAIL)
ACRES | 488. | | 7.
65.
115.
193.
255. | 395.
493.
451.
520.
702. |
| 18 CA48 | | 1969 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HTGH
2000 LTW
2010 HTGH
2010 LTW
2020 HTGH
2020 LTW | 2030 HIGH
2030 LCM
2040 HIGH
2050 HIGH
2050 LCW | | 1960 | 1980 HICH
1980 LOW
1990 HIGH
1990 LOW | 2000 416H
2010 416H
2010 110W
2020 416H
2020 110W | 2030 HIGH
2030 LOW
2040 HIGH
2050 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1053. | \$227.
4935.
7000. | 7845.
8305.
9408.
9189.
10696. | 11727.
10469.
132 64.
11237.
13937. | ACRES | 93. | | | |
|-----------|----------------------------------|----------------|--|--|---|---------------------------------|-------|--|---|--|
| | INDUST./
NON-MEG.
EMPLOYMT | 731. | 4227.
3499.
5059.
4485. | 5157.
4923.
5526.
5373.
5648. | 5886.
5818.
6205.
6136.
6310. | TOTAL A | 12403 | | | |
| | VERY WET I | •• | | | | RESTRICT
OPEN
SPACE AC | 2963. | 2985.
2984.
3045. | 3080.
3070.
3128.
3110.
3160. | 3160.
3134.
3191.
3226.
3151. |
| | MANUF.G | 1167. | 2410.
1907.
2388.
1861. | 2272.
1684.
2059.
1431.
1760. | 1446.
1120.
503.
871. | STREETS/ RHIGHWAYS | 536. | 755.
738.
849.
831. | 898.
883.
966.
934.
1012. | 1017.
937.
1063.
952.
1099. |
| | MANUF'G
EMPLOYMT | .904 | 612.
482.
753.
563. | 568.
754.
573.
704. | 650.
579.
625.
580.
449. | EXTENSIV SINSTITUT H | :: | | | |
| | HIGH
INCOME
HH'S | 725. | 1716.
1674.
2140.
2039. | 2466.
2306.
2757.
2491.
3036. | 3252.
2691.
3450.
2761.
3840. | EXTENSIV E INDUST*L 3 | 500. | 500.
500.
500. | 500.
500.
500.
500. | 500.
500.
500.
500. |
| | UPPER
MIDDLE
INC HH'S | 1087. | 2054.
1996.
2732.
2567. | 3308.
3045.
3822.
3419.
4308. | 4600.
3944.
4935.
3977.
5273. | NET IND/ ENDMANDE I | 44. | 163.
148.
179.
168. | 181.
176.
188.
185.
191. | 196.
202.
201.
201.
204. |
| | LOWFR
MIDDLF
INC HH'S 1 | 1280. | 2066.
2014.
2745.
2556. | 3341.
3068.
3928.
3511.
4533. | 5096.
4287.
5753.
4453.
6407. | MANUF'S
ACRES | 102. | 167.
137.
170.
138. | 164.
128.
153.
114.
134. | 114.
76.
95.
66.
72. |
| | INCOME
HH'S | 303. | 456.
440.
653.
594. | 925.
751.
998.
899.
1185. | 1377.
1203.
1567.
1215.
1743. | NET COM- NERCIAL ACRES | 143. | 551.
532.
669. | 726.
830.
815.
916. | 984.
901.
1087.
952.
1132.
1035. |
| | FMP L CY- | 3559.
7656. | 12476.
10824.
15200.
13909. | 16025.
15479.
17747.
16566.
18808. | 19709.
17620.
21214.
18457.
21567. | NFT RES- N
IDENTIAL
ACRES | 1749. | 2889.
2860.
3561.
3469. | 3944.
3821.
4474.
4257.
4835. | 4764.
4123.
5109.
4193.
5499.
4302. |
| | HOL DS | 3402. | 6292.
6124.
8270.
7756. | 9939.
9170.
11506.
10320.
13062. | 14325.
12124.
15704.
12405.
17264. | ACO ES | 2038. | 3770.
3676.
4580.
4444. | 5015.
4882.
5645.
5372.
5375. | 6058.
5294.
6493.
5412.
6937. |
| Z | POPULA- | 12771. | 23517.
22896.
30012.
28160. | 36019.
33251.
40508.
36358.
45955. | 50375.
42674.
53632.
42415.
58935.
43896. | VACANT
(AVAIL)
ACPES | 6367. | 4333.
4504.
3428.
3590. | 2910.
3068.
2165.
2488.
1655. | 2538.
1156.
2399.
571.
2189. |
| 19 CANTON | | 1960 | 1980 HIGH
1990 LOW
1990 HIGH
1900 LOW | 2000 HTCH
2000 LTN
2010 HTCH
2010 HTCH
2020 HTCH
2020 LTN | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 HIGH | | 1940 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LPW | 2000 HICH
2000 LCW
2010 HICH
2020 HICH
2020 LCW | 2030 HIGH
2040 HIGH
2040 LIW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION -- WASTFWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 204. | 600.
600.
1500.
1500. | 1800.
1800.
2100.
2100.
2500. | 3500.
3500.
5000.
4500.
6500. | CR ES | 9882. | | | |
|-------------|----------------------------------|--------------|--|--|--|-------------------------------|--------------|-----------------------------------|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 7.
15. | 200.
200.
500.
500. | 900.
1200.
1200.
1500.
1500. | 2006.
1995.
2546.
2541.
3023. | TOTAL ACRES | 86 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | •• | | •••• | | RESTRICT
OPEN
SPACE AC | 861. | 936.
933.
995.
991. | 1024.
1018.
1066.
1052.
1096. | 1099.
1075.
1115.
1095.
1133. |
| | MANUF.G | •• | 102.
88.
234.
182. | 240.
184.
237.
180.
224. | 226.
108.
226.
70.
187. | STREETS/
HIGHWAYS
ACRES | 282. | 544.
537.
626. | 657.
718.
699.
853. | 876.
811.
918.
850.
960. |
| | MANUF G | 26. | 12.
3.
52. | 50.
31.
59.
42.
0. | 41.
68.
200.
200. | EXTENSIV
INSTITUT
ACRES | •• | .°.° | | |
| | HIGH
INCOME
HH S | 167. | 950.
905.
1345.
1259. | 1640.
1508.
1895.
1676.
2142. | 2315.
1849.
2546.
1939.
3033. | EXTENSIV
INDUST L
ACRES | 2. | 2. 2. 2. 2. | 2. | 2 |
| | HIDDLE
INC HH'S | 81. | 792.
752.
1238.
1137. | 1620.
1457.
1976.
1715.
2338. | 2700.
2137.
2800.
2171.
2800. | NET IND/
NON-MFG
ACR ES | :: | 13.
13.
33. | 60.
80.
80.
100. | 133.
170.
169.
201. |
| | LOWER
MIDDLE
INC HH'S | 98. | 408.
386.
592.
560. | 835.
782.
1120.
1000.
1446. | 1800.
1502.
1900.
2000.
2000. | NET IND/
MANUF'S
ACRES | | 5.
10. | 10.
11.
8. | 9.
10.
13. |
| | LOW
INCOWE
HH'S | 27. | 81.
76.
124. | 207.
198.
304.
281.
400.
353. | 600.
462.
700.
600.
700. | NET COM-
MERCIAL
ACRES | 13. | 39.
39.
99. | 119.
119.
139.
166. | 233.
233.
333.
299.
433. |
| | EMPL OY- | 237. | 914.
891.
2287.
2207. | 2990.
2915.
3596.
3522.
4224. | 5772.
5644.
7841.
7180.
9910. | NET RES-
IDENTIAL
ACRES | 399.
812. | 2671.
2609.
3326.
3250. | 3657.
3553.
4115.
3930.
4450. | 4487.
3743.
4664.
3963.
4860. |
| | HOUSE-
HOLDS | 374. | 2230.
2119.
3300. | 4302.
3944.
5294.
4672.
6325. | 7415.
5950.
7946.
6610.
8533. | ·USED.
ACRES | 415. | 2729.
2666.
3469. | 3846.
3741.
4345.
4157.
4724. | 4863.
4114.
5176.
4437.
5507.
4710. |
| ISLE | PUPULA-
TION | 1488. | 8298.
7885.
11925.
11107. | 15532.
14245.
18576.
16399.
22182.
18692. | 25999.
20872.
27855.
23180.
29911. | VACANT
(AVAIL)
ACRES | 8323. | 5673.
5744.
4730.
4881. | 4341.
4464.
3752.
3972.
3209. | 3043.
3879.
2672.
3498.
2281. |
| 20 CAPLISLE | | 1960
1970 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LDW
2040 HIGH
2040 LDW
2050 HIGH
2050 HIGH | | 1960 | 1980 416H
1980 LM
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTPICT COMMISSION——WASTEWATEO STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2950

| COMMED-
CIAL
ENPLOYMT | 1385. | 5505.
. 5259.
6815. | 7945.
7553.
10604.
9161.
13097. | 14180.
11240.
15811.
11882.
16545. | CPES | 14694. | | | |
|---|--------------|--------------------------------------|--|--|-------------------------------|--------|---|---|--|
| INDUST./
NON-MFG. | 348. | 2047.
1691.
2591.
2289. | 2908.
2898.
3731.
3752.
4259. | 4650.
4669.
5081.
5326.
5220. | TOTAL ACPES | 146 | | | |
| VERY WET
MANUF 'G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 1326. | 1352.
1349.
1420.
1409. | 1451.
1436.
1497.
1474.
1525. | 1525.
1494.
1546.
1495.
1566. |
| MANUE .G | 807.
386. | 300.
235.
307.
235. | 298.
218.
252.
165.
196. | 171.
137.
41.
89. | STREETS/
HIGHWAYS
ACRES | 1125. | 1563.
1547.
1666.
1632. | 1719.
1691.
1811.
1762.
1880. | 1887.
1781.
1933.
1795.
1962. |
| MANUF'G | 153. | 894.
601.
1178.
768. | 1167.
1243.
1337. | 1443.
1059.
1502.
1106.
1250. | EXTENSIV SINSTITUT H | •• | | | |
| HIGH
INCOME
HH'S | 790. | 2435.
2398.
2687.
2595. | 2881.
2735.
3076.
2842.
3252. | 3298.
2832.
3337.
2736.
3407. | EXTENSIVE INDUST .L. ACRES | 437. | 437.
437.
437. | 437.
437.
437.
437. | 437.
437.
437.
437.
437. |
| UPPER
MIDDLE
INC HH'S | 1460. | 3595.
3531.
4092.
3926. | 4247.
4247.
4904.
4511.
5254. | 5312.
4684.
5425.
4685.
5502. | NON-MEG
NON-MEG | 19. | 128.
105.
165. | 186.
195.
241.
243.
276. | 302.
303.
331.
326.
347. |
| LOWER MIDOLE | 1591. | 3196.
3130.
3911.
3695. | 4539.
4226.
5172.
4693.
5808. | 5533.
5533.
7017.
5674.
7600. | MET TND! MANUF'G | 29. | 35.
25.
43. | 43.
44.
45.
45. | 47.
48.
48.34.
39. |
| LOW | 407. | 664.
642.
885.
817. | 1102.
1017.
1343.
1220.
1592.
1403. | 1635.
1976.
1644.
2125.
1635. | NET COM- | 210. | 698.
682.
786.
730. | 861.
R35.
1038.
942.
1204. | 1277.
1081.
1385.
1124.
1434. |
| TOTAL
FMDLOY-
MENT | 5350. | 9747.
7787.
10890.
9271. | 12317.
11465.
15831.
13969.
18889. | 20444.
17047.
22532.
19042.
23210. | NET RES-
INFNTIAL
ACRES | 2388. | 5349.
5295.
6109.
5954. | 6450.
6260.
6961.
6676.
7277. | 7106.
6377.
7335.
6391.
7555. |
| TOTAL
4011SE-
HOL 35 | 4244. | 9890.
9792.
11575.
11033. | 13031.
12224.
14495.
13266.
15905. | 16836.
14685.
17755.
14739.
18634. | · USED · | 2646. | 6211.
6107.
7103.
6858. | 7540.
7310.
9284.
7891.
8802. | 9731.
7794.
9099.
7874.
9376. |
| CHEL WSFNDD
TOTAL
POPULA-
TION | 15130. | 35973.
35296.
40881.
38984. | 45978.
43155.
49654.
45472.
54448. | 55929.
48928.
58960.
59998.
47559. | VACANT
(AVATL)
ACRES | 9159. | 5131.
5253.
4068.
4358. | 3547.
3819.
2655.
3129.
2048. | 2113.
3188.
1679.
3092.
1354. |
| 21 CHEL | 1960 | 1990 HIGH
1990 HIGH
1990 LOW | 2000 HIGH
2003 LM
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 I DW | 2000 HTCH
2010 HTCH
2010 HTCH
2020 HTCH
2020 HTCH | 2030 HIGH
2030 LIW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1870. | 3283.
3068.
2200.
2200. | 2050.
1950.
1900.
1700.
1963. | 2440.
2043.
3215.
2419.
3729. | ACRES | 1389. | | | |
|------------|----------------------------------|--------|------------------------------------|--|---|-------------------------------|-------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 483. | 3242.
2698.
2870.
2492. | 2700.
2423.
2600.
2396.
2500. | 2622.
2503.
2827.
2671.
2942. | TOTAL A | 13 | | | |
| | VERY WET
MANUF G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 209. | 209. | 209.
209.
209.
209.
209. | 209.
209.
209.
209. |
| | WET.
MANUF.G | 911. | 813.
637.
757. | 750.
650.
750.
750. | 750.
636.
279.
467. | STREETS/
HIGHWAYS
ACRES | 252. | 258.
248.
237. | 230.
222.
225.
225.
215.
223. | 220.
208.
232.
215.
240.
223. |
| | MANUF G | 3337. | 1600.
1600.
1000. | 550.
280.
280.
140. | 280.
200.
200.
400. | EXTENSIV
INSTITUT
ACRES | 11 | 1,1,1 | 1 1 1 1 T | |
| | HIGH
INCOME
HH'S | 1069. | 684.
698.
317.
367. | 216.
113.
156.
78. | 100.
100.
100.
100. | EXTENSIV
INDUST L
ACRES | 42. | 42.
42.
42. | 42.
42.
42.
42. | 42.
42.
42.
42. |
| | UPPER
MIDDLE
INC HH'S | 2256. | 1193.
1225.
758.
824. | 599.
630.
550.
524.
496. | 400.
350.
300.
300.
250. | NET IND/
NON-MFG
ACRES | 36. | 232.
195.
205.
180. | 193.
175.
186.
173.
179. | 180.
200.
192.
208.
198. |
| | LOWER
MIDDLF
INC HH'S | 4860. | 4040.
4016.
3889.
3897. | 3803.
3587.
3752.
3725.
2997. | 3750.
3200.
3800.
3900.
3500. | NET IND/ PANUF'G | 183. | 104.
96.
76. | 56.
44.
40.
38. | |
| | LOW | 1929. | 2356.
2328.
2321.
2313. | 2308.
2202.
2304.
2107.
2302. | 2400.
2450.
2250.
2501.
2300. | NET COM-
MERCIAL
ACRES | 39. | 68.
45.
45. | 42.
39.
35.
41. | 50.
102.
67.
136. |
| | TOTAL
EMPLOY-
MENT | 6601. | 8939.
8003.
6827.
6314. | 6050.
5573.
5530.
5026.
5353. | 6093.
5176.
6879.
5569.
7537. | NET RES-
IDENTIAL
ACRES | 425. | 328.
324.
281. | 278.
249.
275.
219.
275. | 269.
191.
262.
185.
260. |
| | HOUSE-
HOLDS | 10114. | 8273.
8268.
7285.
7400. | 6878.
6635.
6719.
6098.
6629. | 5550.
5750.
6700.
5900.
6801. | ·USED . | 682. | 679.
607. | 569.
516.
545.
467.
532. | 513.
421.
571.
450.
612. |
| SEA | POPULA-
TION | 33704. | 25594.
25742.
23076. | 20875.
20194.
20430.
18591.
20179. | 20237.
17717.
20377.
18137.
20660. | VACANT
(AVAIL)
ACRES | 203. | 147.
210.
292.
328. | 337.
357.
367.
454.
382. | 404.
508.
334.
473.
285. |
| 22 CHELSEA | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HTCH
2000 LCM
2010 HTGH
2010 LCM
2020 HTCH
2020 HTCH | 2030 HIGH
2040 HIGH
2040 LOW
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION-MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMER-
CIAL
EMPLOYMT | 688. | 2209.
2099.
2856.
2466. | 3409.
3236.
4582.
3955.
4959. | 5292.
4310.
5811.
4603.
4914. | Cees | 6438. | | | |
|-------------|----------------------------------|-------|------------------------------------|--|---|-------------------------------|-------|---|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 130. | 567.
466.
866. | 1036.
1061.
1407.
1451.
1472. | 1583.
1630.
1706.
1767.
1425. | TOTAL ACPES | 3 | | | |
| | VERY WET MANUF G | •• | | | | RESTRICT
OPEN
SPACE AC | 1894. | 1909.
1908.
1952.
1947. | 1966.
1986.
1986.
1999. | 1986.
2009.
1988.
2009.
1992. |
| | MANUF G | 447. | 49.
42.
52.
45. | 53.
15.
0. | | STREETS/
HIGHWAYS
ACRES | 205. | 312.
306.
373.
359. | 397.
386.
438.
417.
457. | 460.
414.
478.
423.
414. |
| | MANUF G | 8. | 73.
48.
127. | 64.
79.
16.
92. | 122.
62.
137.
273.
200. | INSTITUT
ACRES | 21. | 21:
21:
21:
21: | 21.
21.
21.
21.
21. | 21.
21.
21.
21.
21. |
| | HIGH
INCOME
HH'S | 670. | 1023.
999.
1244.
1187. | 1418.
1326.
1582.
1428.
1733. | 1838.
1530.
1870.
1558.
1515. | EXTENSIV
INDUST L
ACRES | 15. | 15.
15.
15. | 15.
15.
15.
15. | 15.
15.
15.
15. |
| | UPPER
M TOOL F
INC HH'S | 391. | 798.
778.
1024. | 1241.
1144.
1458.
1300.
1664. | 1824.
1561.
1956.
1576.
1585. | NET IND/
NON-4FG | 17. | 46.
39.
68. | 82.
106.
111. | 119.
128.
132.
107. |
| | LOWER
MIDDLE
INC HH'S | 460. | 702.
686.
912.
853. | 1109.
1023.
1316.
1179.
1526. | 1740.
1476.
1955.
1585.
1584. | MANUF G | 79. | 13.
14.
12. | | . 4 . 4 . 4 . 4 |
| | I NCOME
HH'S | 178. | 197.
193.
242.
227. | 288.
267.
352.
320.
410. | 458.
409.
508.
412.
539. | NET COM- | 107. | 272.
265.
315. | 352.
340.
430.
388.
455. | 478.
412.
512.
432.
464. |
| | EMPLOY- | 1273. | 2898.
2656.
3902.
3341. | 4562.
4342.
6083.
5435.
6523. | 6997.
6003.
7654.
6450.
6612. | NET RES- | 1457. | 21 94.
2169.
2569. | 2823.
2738.
3052.
2926.
3192. | 31 57.
2785.
32 64.
2811.
27 11. |
| | TOTAL
HOUSE-
HOLDS | 1700. | 2720.
2656.
3421.
3234. | 4055.
3760.
4707.
4226.
5333. | 5861.
4075.
6290.
5081.
5223. | *USED *
ACRES | 1660. | 2524.
2485.
3066.
2963. | 3254.
3165.
3596.
3427.
3766. | 3762.
3323.
3913.
3379.
3263. |
| SSET | POPULA-
TION | 5840. | 8992.
8781.
11305.
10687. | 13397.
12424.
15077.
13538.
17080. | 18771.
15936.
20143.
16275.
16730. | VACANT
(AVAIL)
ACPES | 2210. | 1656.
1702.
1010.
1133. | 775.
891.
381.
581.
190. | 181.
678.
3.
611.
716. |
| 73 COHASSET | | 1960 | 1980 HIGH
1980 LUW
1990 HIGH | 2000 HTCH
2000 LCW
2010 HTCH
2020 HTCH
2020 HTCH
2020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 I CW
1990 HIGH
1990 LOW | 2000 HICH
2010 HICH
2010 HICH
2010 HICH
2020 LOW
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 2579. | 4663.
4494.
6151.
5332. | 6700.
8500.
8200.
10000. | 14577.
12572.
20848.
16215.
25933. | ACR ES | 92. | 1000 | | |
|------------|----------------------------------|---------------|--|---|--|-------------------------------|--------|--|---|--|
| | INDUST./
NON-MFG.
EMPLOYHT | 314. | 500.
500.
800. | 1334.
1637.
2331.
2606.
2851. | 4316.
4531.
5998.
6086.
7619. | TOTAL A | 16492 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | •• | :1.0 | | | RESTRICT
OPEN
SPACE AC | 2122. | 2143.
2142.
2186.
2182. | 2221.
2262.
2262.
2248.
2293. | 2307.
2340.
2380.
2386. |
| | MANUE G | 53. | 133.
115.
254.
197. | 269.
202.
263.
194.
237. | 246.
109.
247.
203. | STREETS/
HIGHWAYS
ACRES | 625. | 785.
778.
859.
840. | 918.
904.
990.
1120. | 1214.
1140.
1350.
1217.
1488. |
| | MANUF'S
EMPLOYMT | 1169. | 1452.
1255.
1620.
1352. | 1615.
1365.
1651.
1403.
1679. | 1920.
1657.
2091.
1808.
3387. | EXTENSIV
INSTITUT
ACRES | 22 | ÷, ÷, | . * . * . * | |
| | HIGH
INCOME
HH*S | 1282. | 2126.
2086.
2505.
2403. | 2871.
2686.
3256.
2917.
3658. | 4224.
3397.
4669.
3586.
5622.
3681. | EXTENSIV
INDUST L
ACRES | 273. | 273.
273.
273. | 273.
273.
273.
273.
273. | 273.
273.
273.
273.
273. |
| | WIDDLE
INC HH'S | 836.
1193. | 1820.
1766.
2526.
2359. | 3281.
2969.
4046.
3512.
4843. | 5822.
4810.
6633.
4898.
7553. | NET IND/
NON-MEG
ACR ES | 22. | 34.
54.
54. | 90.
110.
156.
174.
191. | 288.
303.
401.
509.
506. |
| | LOWER
WINDLF
INC HH'S | 925. | 1342.
1333.
1567.
1536. | 2029.
1943.
2629.
2392.
3324. | 4447.
3000.
5474.
3000.
6355. | MET IND/
MANUF G
ACRES | 48. | 59.
53.
67.
58. | 68.
68.
68.
68. | 75.
64.
80.
67.
116. |
| | INCOME | 296. | 339.
330.
452.
420. | 566.
712.
648.
874. | 1183.
700.
1465.
700.
1693. | MERCIAL
MERCIAL
ACRES | 307. | 511.
500.
610.
556. | 647.
767.
747.
867. | 1172.
1038.
1590.
1281.
1929.
1638. |
| | EMPL OY- | 4126. | 6750.
6365.
8825.
7681. | 10417.
9904.
12745.
12403.
14767. | 21059.
18870.
29185.
24179.
37142. | NET RES-
IDENTIAL
ACRES | 1808. | 2899.
2874.
3384. | 3765.
3673.
4225.
4053.
4573. | 4720.
4171.
5086.
4253.
5598.
4414. |
| | TOTAL
HOUSE-
HOLDS | 3339. | 5627.
5514.
7051.
6718. | 8747.
8123.
10642.
9469.
12699. | 15676.
11906.
18241.
12184.
21223.
12660. | USED.
ACRES | 2184. | 3503.
3460.
4115.
3993. | 4602.
4488.
5216.
5033.
5699. | 6256.
5576.
7157.
6008.
8152.
6609. |
| nRn
nRn | TOTAL
PAPULA-
TION | 12517. | 20459.
20364.
24738.
23604. | 30503.
28381.
36948.
32960.
42671. | 52496.
40055.
60951.
70800.
42542. | VACANT
(AVAIL)
ACRES | 11281. | 9782.
9833.
9053.
9197. | 8472.
8607.
7744.
7960.
7100. | 6436.
7224.
5355.
6708.
4187.
5991. |
| 24 CONCORD | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2020 HIGH
2020 LOW
2020 LOW | 2030 HIGH
2030 LCW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW |

METODON ITAN DISTOICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMER-
CIAL
CHAL
CHAL | 1905. | 6594.
6594.
8515. | 9104.
8452.
10084.
8891.
10815. | 11633.
9614.
12926.
10195.
13542. | CPES | 8858. | | 0.14
0.14
0.15
0.15
0.15
0.15
0.15
0.15
0.15
0.15 | |
|----------------------------------|--------|--|---|--|--------------------------------|-------|--|--|---|
| INDUST./
NON-MFG.
EMPLOYMT | 473. | 2356.
1945.
3145.
2773. | 3343.
3243.
3692.
3619.
3814. | 4054.
4054.
4424.
4364.
4567. | TOTAL ACRES | 8 | | | |
| VERY WET
MANUE 'G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 1205. | 1225.
1224.
1263.
1255. | 1280.
1270.
1302.
1312.
1312. | 1312.
1289.
1312.
1289.
1312. |
| MANUF .G | 383. | 469.
369.
454.
349. | 396.
302.
329.
262.
259. | 117.
116.
90.
75. | STREETS/
HIGHWAYS
ACRES | 785. | 1013.
996.
1089.
1055. | 1118.
1090.
1157.
1178. | 1178.
1105.
1197.
1100.
1200. |
| MANUF G | 3543. | 3267.
2767.
3590.
2951. | 3582.
2971.
3607.
2992.
3624. | 3665.
3024.
3680.
2998.
3312.
2790. | EXTENSIV
INSTITUT
ACRES | .:. |
 | | |
| HIGH
INCOME
HH'S | 1082. | 1657.
1628.
1855.
1787. | 1978.
1880.
2071.
1933.
2132. | 2038.
1718.
1857.
1418.
1748. | EXTENSIV
INDUST .L
ACRES | 164. | 164.
164.
164. | 164.
164.
164.
164. | 164.
164.
164.
164. |
| UPPER
MIDDLE
INC HH'S | 1929. | 2646.
2602.
2937.
2829. | 3124.
2971.
3257.
3054.
3325. | 3105.
2845.
2125.
2439.
1750. | NET IND/
NON-MFG
ACOES | 29. | 153.
125.
205.
180. | 218.
212.
242.
237.
250. | 269.
266.
291.
287.
303. |
| LOWER
MI POLE
INC. HH'S | 2665. | 3123.
3065.
3658. | 4083.
3823.
4476.
4105.
4830. | 5001.
4368.
5256.
4400.
5473. | MET IND!
MANUF'G
ACRES | 185. | 166.
148.
174.
153. | 171.
151.
170.
150.
167. | 166.
164.
164.
146.
130. |
| TACOME | 524. | 808.
785.
1027. | 1208.
11114.
1368.
1240.
1513. | 1615.
1414.
1720.
1418.
1841. | MERCIAL
MERCIAL
ACRES | 376. | 1138.
1119.
1247.
1179. | 1286.
1243.
1351.
1272.
1400. | 1455.
1320.
1541.
1359.
1582. |
| FAPL NY- | 6304. | 12969.
11675.
15704.
13570. | 16414.
14967.
17713.
15765.
18512. | 19570.
16830.
21145.
17647.
21537. | NET PES-
IDENTIAL
ACRES | 1667. | 2593.
2549.
3008. | 3195.
3063.
3445.
3252.
3554. | 3371.
2915.
3348.
2708.
3297.
2571. |
| 101AL
40155- | 5621. | 8234.
8080.
9476. | 10394.
9788.
11172.
10331.
11600. | 11760.
10376.
11677.
9351.
11502.
8888. | ·USED. | 2257. | 4049.
3941.
4634.
4412. | 4871.
4668.
5208.
4911.
5371. | 5260.
4647.
5343.
4497.
5328. |
| TOTAL
POPULA-
TION | 26230. | 30153.
29625.
34374.
32310. | 36453.
3455.
39022.
36248.
41394. | 40961.
35405.
39522.
32111.
38959. | VACANT
(AVATL)
ACRES | 4429. | 2389.
2517.
1691.
1955. | 1409.
1649.
1009.
1361.
816. | 927.
1636.
825.
1792.
836. |
| | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 LCW
2010 HTCH
2010 HTCH
2010 LCW
2020 HTCH
2020 LCW | 2020 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 415H
2000 LTW
2010 HTGH
2010 LTW
2020 416H
2020 LTW | 2030 HIGH
2030 LIW
2040 HIGH
2040 LIW
2050 HIGH
2050 LIW |

MET POPOLITAN DISTRICT COMMISSION -- WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| CONNER-
CIAL
CIAL | 2898. | 8630.
6518.
9732.
8934. | 9843.
9363.
10007.
9240.
10086. | 10425.
9050.
11271.
9349.
11616. | CR ES | .9069 | | | |
|-----------------------------|--------|--|--|---|-------------------------------|-------|-------------------------------------|---|---|
| INDUST./
NON-MFG. | | 5334.
4418.
5725.
5149. | 5546.
5350.
5554.
5415.
5267. | 5316.
5236.
5475.
5377.
5489. | TOTAL ACRES | 69 | | | |
| VERY WET
MANUF'G | | | | | RESTRICT
OPEN
SPACE AC | 1602. | 1633.
1630.
1669.
1662. | 1680.
1672.
1680.
1678.
1680. | 1680.
1680.
1680.
1678.
1680. |
| MANUF'G | | 651.
512.
555.
434. | 450.
400.
400.
350.
350. | 227.
227.
155.
148.
101. | STREETS/
HIGHWAYS
ACRES | 754. | 896.
874.
954. | 964.
943.
963.
950. | 937.
898.
945.
945. |
| * DRY *
MANUF * G | 1899. | 2296.
1895.
2452.
1988. | 2446.
2006.
2314.
1835.
2271. | 2273.
1678.
2224.
1556.
1642. | EXTENSIV
INSTITUT
ACRES | •• | , , , | | |
| HIGH | -: | 968.
939.
1223.
1161. | 1338.
1272.
1215.
1267.
1025. | 816.
881.
669.
720.
619. | EXTENSIV
INDUST L
ACRES | 155. | 155.
155.
155.
155. | 155.
155.
155.
155.
155. | 155.
155.
155.
155.
155. |
| UPPER
MIDDLE
INC HH'S | 1961. | 1659.
1627.
1866.
1795. | 1964.
1879.
1874.
1894.
1641. | 1066.
1133.
874.
926.
716. | NET IND/
NON-MFG
ACRES | 104. | 337.
280.
362.
326. | 351.
351.
342.
333. | 336.
331.
346.
347.
347. |
| LOWER
MIDDLE | | 3411.
3351.
3899.
3722. | 4249.
4008.
4512.
4722.
4722. | 4115.
4712.
4712.
4800. | MET IND! | 104. | 112.
96.
114. | 110.
96.
103.
87.
99. | 95.
76.
90.
69.
66. |
| LOW | 768. | 1035.
1010.
1294.
1211. | 1474.
1368.
1604.
1471.
1706. | 1698.
1493.
1750.
1494.
1860. | MERCIAL
ACRES | 334. | 947.
926.
1007. | 1014.
982.
1025.
969.
1030. | 1053.
949.
1109.
969.
1132. |
| TOTAL
EMPLOY- | 7115. | 17112.
15343.
18464.
16505. | 18285.
17119.
18275.
16840.
17974. | 18241.
16191.
19125.
16430.
18947. | NET RES-
IDENTIAL
ACRES | 1886. | 2056.
2026.
2457.
2374. | 2579.
2487.
2552.
2557.
2444. | 2228.
2079.
2176.
1974.
2173. |
| TOTAL
HOUSE- | 6608. | 7071.
6927.
8281.
7889. | 9024.
8527.
9205.
8854.
9094. | 9197.
7643.
9004.
7257.
7994. | .USED. | 2428. | 3452.
3329.
3939. | 4053.
4032.
3956.
3906. | 3436.
3436.
3722.
3353.
3719. |
| TOTAL
POPULA-
TION | 23869. | 24275.
23785.
27560.
26266. | 30213.
28370.
30610.
29450.
30241. | 27281.
25453.
25845.
23454.
25814. | VACANT
(AVATL)
ACRES | 1966. | 769.
917.
199. | 53.
232.
77.
171.
215. | 422.
404.
826.
498. |
| 26 DEDHAM | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LM
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1940 HIGH
1940 HIGH
1940 HIGH | 2000 HIGH
2010 HIGH
2010 I OM
2020 HIGH
2020 HIGH | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 I IW |

METRAPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYNT | 139. | 327.
311.
449.
373. | 800.
1300.
1300.
2000. | 3200.
3000.
4500.
6000.
5000. | CRES | 9798. | | | |
|-----------|----------------------------------|--------------|--|--|---|--------------------------------|-------|-------------------------------------|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 54. | 100.
100.
151.
144. | 350.
650.
650.
1000. | 1549.
1549.
2246.
2163.
2806. | TOTAL ACRES | -6 | | | |
| | VERY WET MANUF G | •• | | | | RESTRICT
NPEN
SPACE AC | 319. | 348.
348.
415.
413. | 449.
444.
497.
534. | 546.
546.
514.
586.
522.
635. |
| | MANUF'G | •• | 130.
112.
0. | | | STREETS/
HIGHWAYS
ACRES | 244. | 393.
393.
449. | 635.
694.
740. | 721.
775.
721.
832.
749.
898. |
| | DRY MANUF 'G | 41. | | 0.00.5. | 200.
200.
400. | EXTENSIV
INSTITUT
ACP ES | :: | · · · · · | | |
| | H1GH
INCOME
HH'S | 463. | 1033.
1021.
1321. | 1552.
1458.
1758.
1585.
1952. | 2122.
1730.
2279.
1785.
2604. | EXTENSIV
INDUST L
ACRES | 99. | 99. | .66 | , 66
99
99 |
| | IJP PER
M IODLE
INC HH'S | 138. | 453.
445.
608.
586. | 820.
760.
1055.
928.
1315. | 1636.
1350.
1894.
1378.
2179. | NET IND/
NON-MEG
ACRES | 3. | ., ., | 21.
21.
40.
62. | 62.
99.
140.
135.
175. |
| | LOWER WIDDLE | 132.
192. | 317.
311.
463.
443. | 649.
610.
867.
774.
1118. | 1494.
1206.
1490.
1296.
1493. | MET IND/
MANUFOG
ACPEC | 91. | 155.
154.
0. | | 0.
3.
12. *. |
| | LOW TNCOME | 61. | 46.
45.
81. | 139.
128.
229.
207.
337. | 508.
457.
642.
466.
756. | NET COM-
MEPCIAL
ACRES | 60. | 100.
90.
108. | 132.
185.
165.
212. | 202.
202.
278.
378.
445.
412. |
| | FAPLOY- | 234. | 557.
523.
601.
518. | 1150.
1150.
1950.
1952.
3000. | 4808.
4637.
6957.
6364.
9213.
8129. | NET RES- | 869. | 2120.
2120.
2963.
2938. | 3335.
3276.
3874.
4287. | 4421.
4421.
4867.
3898.
5407. |
| | TOTAL
HOUSE-
HOLDS | 1275. | 1848.
1822.
2473.
2374. | 3161.
2956.
3938.
3496.
4721. | 5759.
4742.
6305.
1032.
5283. | · USED · | 1022. | 2380.
2378.
3050. | 1489.
1470.
4070.
3979.
4561. | 4812.
4184.
5391.
4384.
6072. |
| | POULA-
TION | 2846. | 6543.
6454.
8733.
8385. | 11139.
10421.
13365.
11961.
16127. | 19657.
15200.
21511.
16822.
23985.
18039. | VACANT
(AVATL)
ACRES | 9115. | 6578.
5580.
5755. | 5128.
5198.
6630.
1864. | 7899.
7899.
70045.
70046. |
| 27 FILVED | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LPW
2010 HIGH
2010 HIGH
2020 HIGH
2020 LPW | 2030 HTCH
2030 LTM
2040 HTCH
2040 LTM
2050 HTCH
2050 LTM | | 1940 | Mo 1 0061
Mo 1 0861
Mo 1 0861 | 4011 0000
401 0000
401 0100
401 0100 | MOT 0702
MOT 0107
MOT 0107
MOT 0707
MOT 0707 |

MET POPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 329. | ÷;;; | 566.
564.
863.
754.
1251. | 1812.
1317.
2718.
1795.
3575. | CRES | . 98 | | | |
|-------------|----------------------------------|--------------|--|--|---|-------------------------------|--------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 112. | 294.
244.
288.
259. | 303.
294.
385.
380.
460. | 624.
600.
849.
782.
1096. | TOTAL ACRE | 15686. | | · 100 3100 | |
| | VERY WET
MANUF'S
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 3193. | 3217.
3215.
3272.
3268. | 3296.
3288.
3332.
3317.
3361. | 3375.
3339.
3412.
3464.
3464. |
| | MANUF.G | • • | 8.
25.
18. | 26.
0.00. | | STREETS/
HIGHWAYS
ACRES | 538. | 724.
718.
786. | 814.
893.
855.
891.
891. | 915.
859.
1259.
941.
1736. |
| | MANUF G | | 193.
106.
274.
155. | 271.
164.
320.
493.
379.
555. | 758.
702.
850.
783.
1524. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HTSH
INCOME
HH *S | 313. | 855.
835.
1038. | 1201.
1122.
1362.
1220.
1535. | 1808.
1451.
2003.
1527.
2434. | EXTENSIV INDUST'L ACRES | 61. | 61.
61.
61. | 61;
61;
61;
61; | 61.
61.
61.
61. |
| | UPPED MIDDLE | 287.
619. | 759.
743.
914.
871. | 1075.
1245.
1112.
1439. | 1707.
1417.
1955.
1442.
2256. | NET IND/
NON-MFG
ACRES | 12. | 117.
114.
115. | 116.
117.
121.
123.
126. | 137.
138.
152.
150.
169. |
| | LOWER
MIDDLE
INC HH'S | 495. | 838.
822.
940. | 1080.
1046.
1252.
1173.
1451. | 1750.
1495.
2065.
1573.
2410. | MET IND/ PANUF GACRES | :: | | | 19.
17.
21.
37. |
| | LOW | 303. | 254.
251.
281.
270. | 308.
293.
356.
334.
410. | 476.
540.
540.
432.
608. | NET COM- | 298. | 400.
399.
402.
400. | 408.
428.
420.
454. | 491.
458.
552.
490.
609. |
| | FOT AL
EMPLOY-
MENT | 450. | 947.
797.
1057.
875. | 1160.
1041.
1568.
1626.
2090. | 3194.
2619.
4417.
3360.
6196. | NET RES-
IDENTIAL
ACRES | 1420. | 2867.
2822.
3484.
3414. | 3744.
3640.
4147.
3962.
4471. | 4630.
4061.
5041.
4153.
5614. |
| | TOTAL
HOUSE-
HOLDS | 1398. | 2706.
2651.
3173. | 3664.
3458.
4216.
3841.
4835. | 5741.
6563.
4974.
7709. | · USED .
ACR ES | 1790. | 3389.
3338.
4008.
3932. | 4275.
4169.
4704.
4517.
5060. | 5277.
4673.
5766.
4811.
6429. |
| * | POPULA-
TION | 4727. | 9200.
9013.
10788. | 12457.
11756.
14334.
13058.
16439. | 19523.
16290.
22313.
16913.
26210. | VACANT
(AVAIL)
ACRES | 10105. | 8295.
8354.
7558. | 7241.
7365.
6734.
6954.
5313. | 6057.
6754.
5188.
5525.
3997.
6028. |
| 28 PUXBIJAY | | 1960 | 1980 HIGH
1980 LTW
1990 HIGH
1990 LTW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LCW
2040 HIGH
2050 LCW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 LOW
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METPOPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY ALLOCATIONS 1950 - 2050

| | POPULA- | TOTAL
HOISE- | TOTAL
CMPL OY- | INCOVE | LOWER MIDDLE | INC HH'S | HIGH
INCOME
HH'S | MANUF'G
EMPLOYMT | MANUE . G | VERY WET MANUF G | INDUST./
NON-MEG.
EMPL JYMT | CONNES-
CIAL
EMPLOYMT |
|--|--|---|---|--------------------------------------|--------------------------------------|---|---|--------------------------------------|--------------------------------------|----------------------------------|---|---|
| 1960 | 2238. | 672. | 295. | 129. | 315. | 147. | 81. | 12. | 3. | | 51. | 229. |
| 1980 416H
1980 LCW
1990 416H
1990 LCW | 3512.
3425.
5259.
4885. | 1167.
1139.
1749.
1625. | 1705.
1462.
2132.
1976. | 177.
173.
205.
194. | 374.
368.
503.
468. | 340.
333.
527.
488. | 276.
264.
514. | 307.
203.
425.
272. | 0.4 | | 361.
296.
500. | 1036.
963.
1200.
1200 |
| 2000 HIGH
2010 HIGH
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 6400.
9114.
7847.
11367. | 2356.
2130.
3034.
2612.
3785. | 3208.
3090.
4822.
4613.
6462. | 235.
221.
285.
262.
341. | 641.
584.
805.
706.
997. | 735.
657.
964.
822.
1219. | 745.
668.
979.
821.
1228. | 422.
282.
453.
318.
493. | | | 678.
805.
1160.
1295.
1462. | 2100.
2000
3200.
3000
4500. |
| 2020 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | 14386.
10727.
16769.
11106.
19917. | 4792.
3572.
3585.
3698.
6635. | 8170.
7147.
10341.
8572.
11725. | 392.
446.
499.
345. | 1267.
1537.
1819. | 1530.
1252.
1778.
1280.
2049. | 1603.
1224.
1825.
1319.
2269. | 582.
442.
635.
470. | | | 1839.
1978.
2258.
2365.
2602. | 5749.
4727
7448.
5717
8646. |
| | VACAUT
(AVAIL)
ACRES | .USED. | NET BES-
IDENTIAL
ACRES | MEDCIAL
ACRES | MET IND/
MANUE 'G
ACPES | NET IND/
NON-MEG
ACRES | EXTENSIV
INDIJST*L
ACRES | EXTENS IV
INSTITUT
ACRES | STREETS/
HIGHWAYS
ACPES | RESTRICT
OPEN
SPACE AC | TOTAL ACPES | CPES |
| 1960 | 5134. | 478. | 441. | 29. | . w | æ & | 30. | •• | 179. | 3382. | 92 | 9203. |
| 1980 HTCH
1980 LOW
1990 HTGH | 4666.
4693.
4135.
4186. | 886.
863.
1335.
1293. | 759.
748.
1185. | 91.
86.
102. | 9.
12. | 28.
23.
37. | 30. | | 232.
228.
279. | 3389.
3389.
3423. | 110011 | |
| 2000 HTSH
2000 LCW
2010 HTGH
2010 LCW
2020 HTGH
2020 LCW | 3673.
375.
2962.
3154.
2879. | 1726.
1657.
2327.
2164.
2823. | 1504.
1436.
1998.
2386.
2152. | 162.
155.
235.
222.
322. | 13 . 8 | 49.
57.
81.
101. | 30. | | 325.
318.
391.
375.
448. | 3444.
3493.
3493.
3528. | | 11800 |
| 2030 476H
2030 LNV
2040 HIGH
2040 LCW
2050 HIGH
2050 LCW | 2069.
2700.
1433.
2473.
701. | 3081.
2538.
3621.
2729.
4244. | 2533.
2053.
2931.
2151.
3455. | 405.
337.
519.
403. | 18 12 13 14 15 | 126.
135.
154.
177. | 30. | | 482.
5428.
604. | 3542.
3508.
3577.
3625. | | |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

2900. 2700. 2850. 2400. 2800. 3000. 2600. 3400. 3200. 4000. 4000. 4000. 3000. COMMER-CIAL EMPLOYNT 5331. TOTAL ACRES 2400 2311. 2600. 2200. 2500. 2100. 2512. 2178. 2593. 2272. 2675. 3207. 2668. 2819. 2446. .. 406. 406. 406. 406. 406. VERY NET HANUF 'G EMPLOYMT RESTRICT 1560. 1259. 1559. 1258. 1547. 360. 1498. 1100. 1411. 1000. 1290. 368. 365. 342. 362. 333. STREETS/ HIGHWAYS ACRES 406. : : : : -----12.12 950. 1100. 800. 1100. 1100. EXTENSIV INSTITUT ACRES 1400. 1400. 1100. 1100. 1100. 952. 600. 500. 300. 400. 1387. 1377. 1115. 851. 843. 774. 188. 188. 188. 188. 188. 188. 188. 188. 188. HIGH INCOME HH'S 109. 1890. 1816. 1746. 1547. 1620. 1400. 800. 1300. 800. 1200. NET IND! NON-MFG ACRES MIDDLE INC HH'S 146. 132. 134. 119. 134. 111. 134. 104. 133. 127. 91. 121. NET IND/ MANUF'G ACRES 6764. 6692. 6829. 6654. 6470. 6470. 6675. 6293. 6585. 5400. 5400. 5500. 5000. 4800. 343. 64. 68. 65. 2500. 2200. 2700. 3000. 2700. 2325. 2240. 2316. 2191. 2308. 90. NET COM-MERCIAL ACRES 681. 633. 660. 578. 645. 753. 742. 708. 8260. 7219. 8109. 6658. 7947. 7172. 10106. 9279. 8475. 7804. NET RES-IDENTIAL ACRES 8110. 6577. 8504. 778. EMPLOY-12905. 985. 882. 959. 809. 743. 918. 740. 911. 927. 833. 1113. 1052. 1019. 11916. 11486. 11589. 11287. 10256. 10598. 8800. 10000. 8600. 9600. 8600. . USED. 12983. 12870. 12410. 12226. 1266. 406. 525. 435. 607. 682. 481. 634. 487. 642. 455. 258. 331. 368. 25969. 29449. 25389. 28289. 25389. 34906. 34957. 31985. 33183. 40595. 40346. 37678. 37128. VACANT (AVAIL) ACRES 197. FVEDETT 2030 HIGH 2030 LOW 2040 HIGH 2050 HIGH 2050 HIGH 1980 HIGH 1980 LCW 1990 HIGH 1990 LCW 2000 HIGH 2000 LOW 2010 HIGH 2010 LOW 2020 HIGH 2020 LOW 2030 HTGH 2030 L DW 2040 HTGH 2040 L DW 2050 HTGH 2050 L DW 1980 HIGH 1980 LCW 1990 HIGH 1990 LCW 2000 HIGH 2000 LOW 2010 HIGH 2010 LOW 2020 HIGH 2020 LOW 1960 1960 30

METROPOLITAN DISTRICT COMMISSION -- WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMER-
CIAL
FMPLOYMT | 7800. | 14833.
14425.
16500.
15156. | 18520.
19635.
19635.
20152. | 21449.
18753.
23507.
19428.
24355. | ACRES | 17453. | | | |
|------------|----------------------------------|----------------|--------------------------------------|--|--|-------------------------------|--------|------------------------------------|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 2229.
3175. | 6257.
5185.
6971.
6233. | 7591.
7551
7816.
7787
7700. | 8083.
8043.
8546.
8749.
8583. | TOTAL ACRE | 11 | 100 | 22 325 | |
| | VERY WET MANUF & | •• | 2.00.00 | | | RESTRICT
OPEN
SPACE AC | 1776. | 1809.
1805.
1838.
1830. | 1862.
1884.
1868.
1898. | 1898.
1875.
1908.
1875.
1917. |
| | MANUF G | 2965. | 3988.
3228.
3896. | 3390.
2599.
3127.
2316.
2781. | 2369.
1329.
1940.
905.
1668. | STREETS/
HIGHWAYS
ACRES | 1428. | 1866.
1835.
1941.
1891. | 2002.
1967.
2037.
1984.
2054. | 2055.
1947.
2093.
1939.
2111. |
| | .DRY.
MANUF.G
EMPLOYMT | 3952. | 5393.
3447.
5493.
3503. | 5474.
3552.
5184.
3051.
4790. | 4842.
2524.
4859.
2534.
4788. | EXTENSIV
INSTITUT
ACRES | 2. | 2. 2. 2. 2. 2. | 2. | 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2 |
| | HIGH
INCOME
HH'S | 3111. | 5005.
4950.
5231.
5090. | 5401.
5184.
5558.
5245.
5657. | 5420.
4694.
5322.
4380.
5233. | EXTENSIV
INDUST L
ACRES | 419. | 419.
419.
419. | 419.
419.
419.
419. | 419.
419.
419.
419. |
| | UPPER
MIDDLE
INC HH'S | 4047. | 6892.
6765.
7773. | 8453.
7989.
8961.
8320.
9312.
8490. | 9103.
8109.
9047.
7290.
8737. | NET IND/
NON-MFG
ACRES | 150. | 216.
189.
235.
216. | 251.
256.
256.
253.
253. | 262.
261.
274.
280. |
| | LOWER
MINDLE
INC HH'S | 4101. | 7660.
7508.
9164.
8687. | 10436.
9751.
11632.
10624.
12766. | 13786.
12005.
14812.
1218.
15796. | NET INN/
MANUF'G
ACRES | 230. | 188.
134.
188.
133. | 178.
167.
167.
152.
152. | 145.
137.
130.
130. |
| | LOW
INCOME
HH'S | 1027. | 2115.
2089.
2414.
2300. | 2794.
2629.
3112.
2876.
3424. | 3737.
4056.
3308.
4392.
3285. | MEDCIAL
ACRES | 1300. | 1424.
1397.
1535.
1446. | 1691.
1670.
1744.
1668.
1779. | 1865.
1684.
2002.
1779.
2059. |
| | FOTAL
EMPL DY-
MENT | 16946. | 30473.
26288.
32861.
28001. | 35287.
32222.
35761.
31647.
35423. | 36743.
30649.
38862.
31292.
39560. | NET RES-
INENTIAL
ACRES | 1535. | 6372.
6290.
6865.
6704. | 7156.
6963.
7440.
7589. | 7379.
6729.
7498.
6513.
7590. |
| | HOUSE-
HOLDS | 12286. | 21672.
21311.
24583.
23543. | 25553.
29264.
27064.
31159. | 32046.
28098.
33238.
27196.
34158. | .US=1. | 3215. | 8271.
8010.
8824.
8498. | 9276.
9105.
9408.
9209.
977?. | 9551.
8751.
9911.
8585.
10058. |
| FPAMINGHAM | POPULA-
TION | 44526. | 72250.
71093.
79105.
75881. | 86858.
936114.
93617.
96377.
987256. | 99035.
87192.
99289.
81769.
101958. | VACANT
(AVAIL)
ACRES | 10613. | 5156.
5381.
4429.
4812. | 3892.
4208.
3502.
3370.
3308. | 3428.
4459.
3119.
4633.
7946. |
| 31 FP AM | | 1960 | 1980 HIGH
1980 LCW
1980 LCW | 2000 HIGH
2000 LNW
2010 HIGH
2010 LNW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 LOW
2040 LOW
2050 HIGH
2050 LOW | | 1940 | 1980 HIGH
1990 HIGH
1990 LPW | 2000 HIGH
2000 LCW
2010 HTCH
2010 L CW
2020 HIGH
2020 L CW | 2030 HICH
2030 LOW
2040 HICH
2040 LOW
2050 HICH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| | COMMER-
CIAL
EMPLOYMT | 821.
1508. | 2143.
2047.
2821.
2439. | 4200.
4200.
6000.
8919.
8209. | 9329.
13993.
10908.
16914.
14020. | CRES | 17280. | | | |
|-------------|----------------------------------|---------------|--|--|---|--------------------------------|--------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 369. | 1173.
971.
1403.
1249. | 2110.
2110.
2855.
3089.
3451. | 4079.
4348.
4801.
4969.
5643.
5711. | TOTAL ACRES | 172 | | | |
| | VERY WET MANUE G | •• | | | | R ESTRICT
OPEN
SPACE AC | 1298. | 1323.
1322.
1368.
1361. | 1412.
1401.
1478.
1456.
1517. | 1531.
1486.
1571.
1495.
1623. |
| | MANUE .G | 564. | 471.
406.
498.
421. | 506.
424.
502.
418.
483. | 491.
261.
493.
177.
459. | STREETS/
HIGHWAYS
ACRES | 518. | 824.
815.
886.
868. | 1000.
987.
1103.
1080.
1189. | 1239.
1158.
1324.
1424. |
| | *ORY*
MANUF 'G
EMPLOYMT | 357.
345. | 500.
500.
535.
513. | 528.
530.
566.
572.
613. | 766.
752.
861.
828.
1541. | EXTENS IV
INSTITUT
ACRES | :: | | | |
| | HIGH
INCOME
HH'S | 367. | 982.
954.
1253.
1189. | 1539.
1419.
1854.
1616.
2198. | 2755.
2167.
3085.
2306.
3800. | EXTENSIV
INDUST'L
ACRES | 262. | 262.
262.
262.
262. | 262.
262.
262.
262.
262.
262. | 262.
262.
262.
262.
262.
262. |
| | UPPEP
MIDDLF
INC HH'S | 737. | 1617.
1584.
1922.
1832. | 2337.
2156.
2833.
2499.
3381.
2831. | 4064.
3385.
4582.
3437.
5183. | NET IND/
NON-MFG
ACRES | 22. | 75.
62.
90. | 125.
138.
187.
203.
227. | 269.
287.
317.
373. |
| | LOWEP
WI DOLF
INC HH'S | 1443. | 2276.
2234.
2691.
2555. | 3135.
2925.
3657.
3303.
4242. | 5000.
4179.
5764.
4362.
6584. | NET IND/
WANUF'G
ACRES | 93. | 83.
81.
85. | 85.
86.
86.
86. | 91.
94.
112.
101. |
| | INCOME
HH'S | 302. | 466.
457.
578.
541. | 732.
680.
904.
823.
1087. | 1287.
1143.
1458.
1152.
1644. | NET COM-
MERCIAL
ACRES | 119. | 261.
255.
306.
281. | 398.
398.
518.
713.
666. | 855.
740.
1051.
846.
1246. |
| | FMPLOY- | 2111. | 4287.
3923.
5257.
4622. | 7156.
7265.
9923.
10079.
13467. | 16388.
14690.
20147.
16881.
24556. | NET RES-
IDENTIAL
ACRES | 1027. | 2198.
2153.
2694.
2591. | 3178.
3035.
3920.
3648.
4347. | 4503.
3820.
4949.
3916.
5530. |
| | TOTAL
HOUSE-
HOLDS | 2849. | 5342.
5229.
6444.
6117. | 7743.
7180.
9248.
8242.
10907. | 13106.
10875.
14888.
11258.
17212.
12058. | ·USED. | 1261. | 2617.
2550.
3176.
3034. | 3786.
3653.
4711.
5373. | 5718.
4930.
5411.
5173.
7261. |
| KLIN | POPULA-
TISN | 10533. | 21187.
20758.
24732.
23519. | 29537.
27453.
35107.
31383.
40154. | 48069.
40037.
52998.
40291.
61129. | VACANT
(AVAIL)
ACRES | 13940. | 12253.
12332.
11588.
11756. | 10977.
9725.
10030.
8939. | 8530.
9445.
7712.
9156.
6710. |
| 32 FRANKLIN | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2009 LNW
2010 HIGH
2010 LNW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LM
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LCW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | INDUST./ COMMER-
NON-MFG. CIAL
EMPLOYMT EMPLOYMT | 2697. 2744.
2053. 3903. | 3992. 5202.
3309. 4986.
3972. 5771.
3583. 5258. | 4213. 7000.
4156. 6500.
5090. 8500.
5073. 7700.
5196. 10000. | 5341. 11151.
5310. 9475.
5583. 12867.
5476. 10227.
5912. 14635.
5752. 12181. | TOTAL ACPES | 16928. | | | |
|------------|--|----------------------------|--|--|---|-------------------------------|----------------|---|---|--|
| | VERY WET IN
MANUE'S NO | •• | •••• | | | RESTRICT
OPEN
SPACE AC | 3901.
3901. | 3918.
3916.
3936. | 3945.
3941.
3951.
3953.
3967. | 3956.
3956.
3972.
3956.
3980. |
| | MANUE'S
EMPLOYMT | 1936. | 1695.
1335.
1674.
1302. | 1600.
1200.
1500.
1150.
1465. | 1415.
745.
1326.
1210.
322. | STPEETS/
HIGHWAYS
ACRES | 699. | 837.
816.
892.
869. | 936.
913.
1011.
973.
1048. | 1103.
1103.
1148.
1148. |
| | MANUF G | 535. | 860.
698.
942.
739. | 935.
758.
990.
816.
1032.
852. | 1116.
912.
1157.
938.
907. | EXTENSIV
INSTITUT
ACPES | |
 | * * * * | |
| | HIGH
INCOME
HH'S | 660. | 1382.
1354.
1601.
1538. | 1773.
1668.
1947.
1764.
2108. | 2306.
1887.
2424.
1906.
2709. | EXTENSIV
INDUST L
ACRES | 52. | 52.
52.
52. | 52.
52.
52.
52. | 52.
52.
52.
52.
52. |
| | MINDLE HH'S | 1415. | 2249.
2213.
2481. | 2685.
2915.
2915.
3121.
2659. | 3263.
2739.
3396.
2727.
3577. | NET IND/
NON-MEG
ACRES | 108. | 204.
161.
202.
178. | 218.
214.
272.
271.
279. | 286.
286.
303.
296.
324. |
| | LOWER MIDDLE | 3779. | 4812.
4733.
5307.
5213. | 5788.
5636.
5326.
6017.
6853. | 7338.
6000.
7876.
5800.
8455.
5695. | MET TND/
MANUF G
ACRES | 105. | 106.
86.
107. | 104.
102.
102.
83. | 103.
101.
64.
86. |
| | I NCOMF | 2190. | 1757.
1736.
1796.
1745. | 1872.
1803.
2011.
1907.
2127. | 2120.
1875.
2196.
1500.
2300.
873. | NET COM-
MERCIAL
ACRES | 206. | 380.
366.
418. | 500.
600.
547.
700. | 665.
891.
715.
1009.
845. |
| | EMPL NY- | 7912. | 11750.
10329.
12359.
10882. | 13748.
12613.
16080.
14738.
17693. | 19024.
16442.
20933.
17138.
22664. | VET PES-
IDENTIAL
ACRES | 2389. | 3158.
3105.
3589.
3525. | 3822.
3713.
4220.
4012.
4364. | 4327.
3814.
4471.
3831.
4662. |
| | 1014L
H0196- | 9044. | 10201.
10036.
11185.
10898. | 12119.
11536.
13199.
12347.
14204. | 155027.
12501.
15893.
11933.
17041. | ·USF) · | 2808. | 3847.
3718.
4317.
4173. | 4643.
4475.
5195.
4913.
5446. | 5495.
4835.
5767.
4905.
6082.
5062. |
| CLOUCESTER | TOTAL
PIDILA-
TION | 25789. | 30989.
30496.
33943.
33050. | 36743.
35294.
39983.
37427.
42999. | 45459.
37891.
48066.
36185.
51510. | VACANT
(AVATL)
ACRES | 9464. | 8270.
8422.
7728.
7898. | 7348.
7543.
6706.
7034.
5412. | 6350.
7106.
6931.
7022.
5663. |
| 33 (1)10 | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LM
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2070 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 L'W
1990 HIGH
1990 L'OW | 2000 HICH
2000 LIW
2010 HIGH
2020 HIGH
2020 LIW | 203) HIGH
2040 LCM
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMER-
CIAL
EMPLOYMT | 290. | 616.
593.
789.
689. | 1278.
1308.
2176.
1884.
3052.
2488. | 3600.
3000.
4300.
3500.
5000. | C# ES | 9594. | | | |
|-------------|----------------------------------|-------|--|---|---|--------------------------------|-------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 124. | 334.
277.
394. | 536.
822.
877.
1025. | 1360.
1385.
1727.
1716.
2044. | TOTAL ACRES | 98 | | | |
| | VERY WET MANUF'G | •• | | | | RESTRICT
OPEN
SPACE AC | 1965. | 1980.
1979.
2035.
2030. | 2076.
2068.
2135.
2117.
2180. | 2152.
2219.
2219.
2158.
2268. |
| | MANUF G | •• | 74.
104.
83. | 101.
62.
100.
61.
93. | 95.0.4 | STREETS/
HIGHWAYS
ACRES | 222. | 312.
309.
377.
368. | 431.
505.
480.
563. | 582.
524.
620.
539.
679. |
| | . DRY:
MANUF G
EMPLOYMT | 7.5 | 0.
0.
137. | 411.
300.
458.
354.
496. | 595.
486.
648.
541.
1221.
1061. | EXTENSIV
INSTITUT
ACRES | 15. | 15.
15.
15. | 15.
15.
15.
15. | 15.
15.
15.
15. |
| | HIGH
INCOME
HH'S | 392. | 727.
703.
1024. | 1281.
1179.
1528.
1339.
1781. | 2118.
1687.
2357.
1776.
2942. | EXTENSIV
INDUST'L
ACRES | 59. | 59.
59.
59. | 59.
59.
59.
59. | 59.
59.
59. |
| | UPPER
MIDDLF
INC HH'S | 370. | 713.
694.
993. | 1289.
1171.
1602.
1397.
1938. | 2319.
1932.
2647.
1965.
3067. | NET IND/
NON-MFG
ACP ES | 2. | 9
11 | 17.
29.
31.
37. | 50.
65.
77. |
| | LOWER
4 TODLE
INC HH'S | 543. | 799.
782.
1043. | 1287.
1184.
1562.
1389.
1871. | 2200.
2200.
2200.
2000.
2200. | NET IND/
MANUF G
ACRES | •• | 2.
6. 2. | 13.
14.
10.
14. | 17.
12.
18.
31. |
| | TNCOWE | 167. | 182.
180.
231.
216. | 293.
401.
368.
490. | 593.
681.
528.
771. | NET COM-
MERCIAL
ACRES | 224. | 389.
388.
401.
394. | 433.
435.
493.
474.
551. | 588.
548.
635.
581.
681. |
| | FMPL OY- | 415. | 1025.
934.
1424.
1205. | 2326.
2251.
3555.
3176.
4665. | 5650.
4871.
6770.
5757.
8309. | NET RES-
IDENT IAL
ACRES | 925. | 1524.
1502.
2136.
2068. | 2591.
2490.
3247.
3033.
3742. | 3848.
3294.
4175.
3359.
4723. |
| | TOTAL
HOUS E-
HALDS | 1471. | 2420.
2359.
3290.
3085. | 4169.
3827.
5093.
4493.
6080. | 7230.
6140.
7884.
6269.
8980. | ·USED.
ACRES | 1151. | 1924.
1897.
2554.
2476. | 3053.
2953.
3782.
3547.
4344. | 4503.
3906.
4893.
4018.
5513. |
| NOLT | POPUL A-
TION | 5488. | 8495.
8280.
11212.
10513. | 14201.
13036.
17340.
15303.
20698. | 24606.
20900.
26830.
21339.
30556. | VACANT
(AVAIL)
ACRES | 6183. | 5304.
5335.
4555.
4646. | 3950.
4078.
3098.
3376.
2433. | 2246.
2939.
1788.
2806.
1061. |
| 34 HAMILTON | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LCW
2020 HIGH
2020 LOW | 2030 HICH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 416H
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 699.
1372. | 3000.
2810.
4500.
4500. | 5222.
5627.
6168.
6173.
6904. | 8008.
7175.
9535.
7967.
10461. | RES | .50 | | | |
|------------|------------------------------------|---------------|--|---|---|----------------------------------|----------------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT E | 196. | 1142.
940.
1500.
1500. | 1731.
2046.
2326.
2191.
2481. | 2550.
2819.
2939.
3170.
3417. | TOTAL ACRES | 10003 | | | |
| | VERY WET
MANUF 'G
EMPLOYMT | •• | | | | PESTRICT
OPEN
SPACE AC | 1109. | 1126.
1124.
1196. | 1216.
1208.
1243.
1229.
1261. | 1261.
1243.
1279.
1392.
1256. |
| | MANUF G | 130. | 176.
138.
184. | 187.
145.
186.
145. | 184.
93.
180.
55.
163. | STREETS/
HIGHWAYS
ACRES | 359. | 566.
555.
670. | 705.
701.
749.
734.
778. | 798.
743.
840.
875. |
| | ORY.
MANUFG
EMPLOYMT | 219. | 772.
638.
986.
748. | 979.
1010.
1010.
1037. | 1085.
1101.
820.
1074. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH S | 351. | 749.
729.
1036. | 1275.
1181.
1488.
1321.
1693. | 1927.
1566.
2109.
1645.
2473. | EXTENST V
INDUST • L
ACRES | 115. | 115.
115.
115. | 115.
115.
115.
115. | 115.
115.
115.
115. |
| | UPPER
MIDDLF
INC HH'S | 487. | 1009.
989.
1355. | 1690.
1540.
1969.
1749.
2243. | 2448.
2077.
2660.
2097.
2886. | NON-MEG
ACRES | 134. | 225. | 264.
280.
285.
295. | 336.
344.
360.
363. |
| | LOWER MIDDLE | 580.
888. | 1068.
1047.
1397.
1307. | 1703.
1570.
2006.
1798.
2317. | 2626.
2201.
2982.
2294.
3347. | MANUF G
ACPES | 94. | 217.
210.
223.
213. | 222.
214.
223.
214.
224. | 225.
209.
225.
197.
217. |
| | INCOME | 131. | 279.
270.
405.
366. | 498.
452.
578.
521.
654. | 713.
792.
625.
860. | NET COM-
MERCIAL
ACRES | 200. | 501.
488.
601. | 649.
676.
712.
713.
761. | 835.
779.
937.
832.
908. |
| | TOTAL
EMPLOY- | 1244. | 5090.
4526.
7170.
6893. | 8119.
8511.
9410.
9441.
10315. | 11827.
1975.
13756.
12012.
14918. | NET BES-
IPENTIAL
ACRES | 1211. | 2332.
2305.
3112.
3017. | 342.
3639.
3639.
3471.
3836. | 3829.
4036.
1368.
4292. |
| | 7.07 AL
40055-
401.95 | 1549. | 3105.
3035.
4192.
3976. | 5156.
4743.
6041.
5389.
5907. | 7716.
6470.
8543.
6562.
9567. | ACSES | 1639. | 3275.
3214.
4195.
4079. | 4477.
4400.
4959.
4701.
5115. | \$507.
\$645.
\$542.
\$757.
\$871. |
| /ED | PUPULA-
TION | 5923. | 12017.
11752.
15730.
14746. | 19298.
17757.
22572.
20157.
25085. | 23512.
30975.
24201.
34659. | VACANT
(AVATL)
ACRES | 6791.
5597. | 4923.
4994.
3839. | 3490.
3580.
3039.
1273.
2734. | 2673.
3259.
2227.
3125.
1840. |
| 34 HANDVER | | 1960 | 1980 HICH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LIN
2020 LIN
2020 LIN | 2030 HIGH
2030 LGW
2040 HIGH
2050 LCW
2050 HIGH | | 1960 | 1980 HICH
1980 LOW
1990 HIGH
1990 LCW | 2010 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HICH
2030 LOW
2040 HICH
2040 LOW
2050 HICH
2050 LOW |

METROPOLITAN PISTRICT COMMISSION -- MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
ENPLOYMT | 2235. | 5476.
5243.
7195.
6224. | 8013.
7408.
9359.
8107.
10746. | 11759.
9404.
13275.
10094.
14001. | ACP ES | • | | | |
|------------|----------------------------------|----------------|--------------------------------------|---|---|-------------------------------|--------|-------------------------------------|---|---|
| | INDUST./
NON-HFG.
EMPLOYMT | 516.
656. | 1892.
1563.
2675. | 2916.
2843.
3349.
3620. | 3961.
3898.
4345.
4241.
4561. | TOTAL AC | 1 | | | |
| | VERY WET I | •• | | | | RESTRICT
OPEN
SPACE AC | 2140. | 2164.
2162.
2209.
2201. | 2232.
2221.
2264.
2247.
2279. | 2257.
2290.
2290.
2302.
2399. |
| | MANUF G | 153. | 104. | 106. | , · · · · · | STREETS/
HIGHWAYS
ACRES | 586. | 791.
777.
876. | 915.
989.
972.
1009. | 1017.
941.
1053.
956.
1075. |
| | .DBY .
MANUF G | 373. | 1465.
1178.
1792.
1363. | 1785.
1379.
1819.
1412.
1663. | 1945.
1987.
1950.
1856. | EXTENSIV
INSTITUT
ACPES | 3823. | 3023.
3823.
3823. | 3623.
3623.
3623.
3623.
3623. | 3623.
3623.
3623.
3623.
3623. |
| | HIGH
INCOME
HH'S | 1433. | 1805.
1780.
1958. | 2063.
1969.
2167.
2023.
2259. | 2252.
1958.
2292.
1930.
2373. | EXTENSIV
INDUST L
ACRES | 330. | 330.
330.
330. | 330.
330.
330.
330. | 330.
330.
330.
330. |
| | UPPER
4 TDDLF
INC MH'S | 1055. | 1864.
1826.
2207.
2106. | 2474.
2322.
2700.
2480.
2895. | 2936.
2604.
3010.
2607.
3068. | NON-MFG I | | 145.
123.
197.
175. | 213.
208.
242.
240.
260. | 263.
279.
306.
323.
316. |
| | L DWER
WI DOLE | 1314. | 1868.
1848.
2328.
2193. | 2696.
2504.
3049.
2766.
3394. | 3694.
3200.
4015.
3274.
4326. | MANUE'S
ACRES | 30. | | ***** | ֓֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ |
| | INCOME
HH'S | 403. | 562.
548.
718.
668. | 945.
964.
1086. | 1258.
1034.
1044.
1330. | MEDCIAL
ACOFS | 183. | 879.
863.
993. | 1946.
1006.
1138.
1239. | 1296.
1141.
1399.
1187.
1447. |
| | FWPL OV- | 3277. | 89: 8.
8057.
11765. | 12819.
11716.
14632.
12895.
16298. | 17696.
14822.
19614.
15885.
20418. | THENT TAL | 1939. | 2985.
2936.
3483. | 3589.
4097.
3875.
4256. | 4136.
3678.
4266.
3691.
4396. |
| | HOUSE- | 4205.
5170. | 6002.
7210.
6863. | 9078.
7574.
9880.
9633. | 8401.
8401.
10574.
8855.
11096. | Saady
4Cees | 2452. | 4083.
3987.
4755. | 5076.
5240.
5240.
531. | 5111.
5111.
5254.
6247. |
| 1 | POPULA- | 15378. | 22239.
21819.
25447.
24232. | 28484.
26721.
30404.
27304.
32965. | 29255.
35107.
29432.
35719. | VACANT
CAVATL I
ACRES | \$127. | 266.
2666.
2721. | 153. | 1937.
1937.
903.
1837.
682. |
| 36 HINGHAM | | 1960 | 1990 HIGH
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2040 HIGH
2040 LEW
2050 HIGH
2050 LEW | | 1950 | 1980 HIGH
1990 HIGH
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 COW
2020 HIGH
2020 LOW | 2030 HTGH
2030 LOW
2040 HTGH
2040 LOW
2050 HTGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMED-
CIAL
EMPLIYWT | 546. | 2326.
2199.
3388. | 4071.
3745.
5160.
4353.
6220.
5019. | 8000.
11000.
9000.
15000. | ACPFS | .685. | | | |
|-------------|-----------------------------|--------|--------------------------------------|---|---|--------------------------------|-------|------------------------------------|---|--|
| | TNDUST./
NON-MEG. | 211. | 1067.
881
1496.
1308 | 1700.
1685.
2051.
2037.
2269. | 2618.
2548.
2912.
2834.
3035. | TOTAL ACPES | | | | |
| | VERY WET MANUE'S | :: | ····· | | | RESTRICT
OPEN
SPACE AC | 417. | 423.
422.
436. | 442.
438.
451.
444.
452. | 477.
461.
510.
483.
518. |
| | MANUF G | 459. | 131.
114.
138. | 144. | 139.
139.
45.
90. | STREETS/
41GHWAYS
ACRES | 232. | 307.
301.
345. | 363.
351.
391.
410. | 461.
534.
576.
555.
554. |
| | MANUE .G | 272. | 421.
329.
716. | 715.
506.
739.
758.
559. | 943.
613.
917.
593.
582. | EXTENS IV
INSTITUT
ACRES | •• | | | |
| | HIGH
FNC TWF
HH * S | 414. | 567.
555.
666. | 736.
695.
793.
731.
840. | 1200.
1600.
1600.
2000.
1500. | INDUST .L. | 180. | 180.
180.
180. | 180.
180.
180.
180. | 180.
180.
180.
180. |
| | S.HH ONI | 929. | 875.
866.
906. | 921.
926.
977.
873. | 1200.
1600.
1600.
2000.
1800. | NET IND/
NON-4FG
ACRES | 55. | 143.
131.
172.
159. | 185.
209.
208.
223. | 246.
242.
266.
261.
268. |
| | LOWFP HIS | 1130. | 1699.
1674.
1895. | 2049.
1919.
2191.
2310.
2050. | 2800.
3400.
2000.
2000.
2000. | MANUF'S
ACRES | .01 | 11.
9.
17. | 17.
18.
18.
18. | 20.
14.
19.
14. |
| | INCOME | 227. | 383.
770.
524. | 673.
712.
638.
795. | 1200.
650.
1600.
2000. | MESCTAL
ACRES | 76. | 251.
243.
322.
284. | 368.
346.
440.
387.
511. | 630.
563.
830.
696.
898. |
| | TOTAL
CMPLOY-
MENT | 1276. | 3946.
3523.
5738. | 6659.
6052.
8092.
7037. | 11600.
13234.
14869.
12472.
19706. | IDENTIAL
ACRES | 877. | 1180.
1161.
1342.
1292. | 1410.
1347.
1505.
1412.
1522. | 1801.
1594.
21 61.
1834.
2253. |
| | TOTAL
TOUSE- | 3161. | 3523.
3465.
3491.
3808. | 4129.
4067.
4622.
4755.
4817. | 6400.
4550.
7200.
13303. | NSED. | 1019. | 1586.
1544.
1853. | 1980.
1890.
2172.
2019.
2274. | 2697.
2412.
3276.
2804.
3433. |
| NUO. | PADE STATE | 10104. | 12735.
12526.
14021.
13391. | 15204.
14286.
16233.
16943.
16431. | 21172.
15397.
27112.
17212.
32052.
18932. | VACANT
(AVATL)
ACPES | 2504. | 2189.
2238.
1871.
1996. | 1720.
1826.
1492.
1672.
1359. | 870.
1205.
186.
1972.
0. |
| AT HOLARONE | | 1960 | 1980 HICH
1980 LIW
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 HIGH
2020 LOW
2020 LOW | 2020 HIGH
2030 LOV
2040 HIGH
2050 LOV
2050 HIGH
2050 LOV | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LIN
2040 HIGH
2040 LIN
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | CONNER-
CIAL
ENPLOYNT | 467.
943. | 1523.
1449
2281.
1884 | 3401.
3310
5592.
4703
7850.
6272 | 9734.
7211
12335.
8542
14664. | ACRES | .+2221 | | | |
|------------|----------------------------------|--------------|--|--|---|-------------------------------|---------------|------------------------------------|---|--|
| | INDUST./
NON-NFG.
EMPLOYNT | 76.
187. | 589.
486.
904. | 1251.
1340.
1965.
2076.
2499. | 3167.
3210.
3906.
3625.
4673. | TOTAL A | 122 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 1696. | 1713.
1711.
1764. | 1806.
1795.
1868.
1847.
1899. | 1903.
1870.
1932.
1877.
1966. |
| | MANUF G | 162. | 240.
208.
363. | 381.
301.
375.
293.
361. | 365.
180.
354.
290. | STREETS/
HIGHWAYS
ACRES | 293. | 461.
455.
541.
522. | 604.
588.
849.
813.
917. | 956.
866.
1026.
897.
1100. |
| | . DRY.
MANUF.G
EMPLOYMT | 354. | 414.
346.
455.
367. | 223.
247.
243.
279. | 368.
428.
381.
856.
260. | EXTENSIV
INSTITUT
ACRES | •• | | •••• | |
| | HIGH
INCOME
HH'S | 354. | 919.
897.
1157. | 1366.
1274.
1571.
1405.
1774. | 2017.
1661.
2176.
1728.
2498. | EXTENSIV
INDUST'L
ACRES | 243. | 243.
243.
243.
243. | 243.
243.
243.
243.
243. | 243.
243.
243.
243.
243. |
| | UPPER
MIDDLE
INC HH'S | 534. | 1324.
1301.
1581.
1508. | 1853.
1722.
2136.
1921.
2421. | 2661.
2288.
2868.
2308.
3090.
2373. | NET IND/
NON-MFG
ACR ES | 13. | 59.
52.
80. | 103.
109.
151.
158.
186. | 231.
280.
275.
331. |
| | LOWER WIDDLE | 1080. | 1299.
1273.
1628.
1524. | 1949.
1790.
2294.
2042.
2663. | 3093.
2578.
3518.
2684.
3957. | MET IND/
MANUFIG
ACRES | 46. | 58.
63.
58. | 47.
47.
74.
74.
74. | 50.
52.
62. |
| | INCOME
HH'S | 161. | 281.
273.
375. | 483.
440.
621.
554.
783. | 996.
856.
1163.
866.
1316. | MET COM- | 118. | 277.
272.
328. | 402.
396.
548.
489.
699. | 825.
656.
998.
745.
1153. |
| | TOTAL
EMPLOY-
MENT | 985. | 2767.
2486.
4004.
3328. | 5261.
5173.
8179.
7315.
10988. | 13634.
10939.
17023.
12866.
20484. | NET RES-
IDENTIAL
ACRES | 867.
1617. | 2041.
2009.
2684.
2578. | 3148.
3000.
3845.
3580.
4179. | 4231.
3608.
4550.
3676.
4929. |
| | TOTAL
HOUSE-
HOLDS | 1690. | 3822.
3743.
4741.
4479. | 5650.
5226.
6623.
5923.
7642. | 8766.
7383.
9724.
7587.
10861. | ·USED ·
ACRES | 1944. | 2436.
2389.
3155.
3009. | 3701.
3552.
4591.
4274.
5112. | 5337.
4542.
5880.
4740.
6476. |
| HOLL! STON | TOTAL
POPULA-
TION | 6222. | 14619.
14321.
17639.
16670. | 21002.
19433.
23937.
21418.
27606. | 3454.
26673.
34130.
26649.
38109. | VACANT
(AVAIL)
ACRES | 8949. | 7371.
7426.
6522.
6693. | 5871.
6046.
4672.
5047.
4054. | 3785.
4703.
3143.
4468.
2440.
4092. |
| 38 HOLLI | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 LOW
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2040 LOW
2040 HIGH
2050 HIGH
2050 LOW
2050 LOW | | 1960 | 1980 HIGH
1990 LOW
1990 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW
2020 LOW | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 COM |

METROPOLITAN DISTRICT COMMISSION--MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMER-
CIAL
EMPLOYMT | 253. | 2278.
2091.
4000. | 5828.
6536.
8403.
8214.
12200. | 15154.
12606.
19176.
14811.
22816. | CPES | .69 | 1000 | | |
|--------------|----------------------------------|-------|------------------------------------|---|---|---------------------------------|--------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 105. | 1075.
884.
1500. | 2050.
2464.
2847.
3333.
3686. | 4612.
5100.
5626.
5988.
6705. | TOTAL ACPE | 17869 | | | |
| | VERY WET
MANUE .G
EMPLOYMT | •• | | | | PESTRICT
OPEN
SPACE AC | 3031. | 3043.
3042.
3081. | 3137.
3204.
3204.
3257. | 3279.
3327.
3331.
3239.
3397. |
| | MANUE .G | 10. | | 3.2.0.0.0.0.0 | | STREETS/
HIGHWAYS
ACRES | 323. | 607.
598.
686. | 780.
782.
892.
871. | 1080.
989.
11194.
1042.
1312. |
| | MANUF G | 108. | 422.
987.
553. | 978.
576.
1022.
627.
1127. | 1398.
968.
1567.
1109.
1139. | EXTENSIV
INSTITUT
ACRES | ņņ | v v
v v |
 | |
| | HIGH
INCOME
HH·S | 280. | 459.
445.
731.
686. | 1136.
1482.
1231.
1877. | 2499.
1904.
2848.
2063.
3567. | EXTENSIV
INDUST*L
ACRES | 263. | 263.
263.
263.
263. | 263.
263.
263.
263.
263. | 263.
263.
263.
263.
263. |
| | UPPER
MIDDLE
INC HH'S | 363. | 564.
552.
887.
823. | 1502.
1308.
2120.
1746.
2769. | 3581.
2892.
4123.
2951.
4727. | NET IND/
NON-MEG
ACRES | 12. | 81.
68.
109. | 146.
173.
199.
231.
255. | 316.
349.
384.
456.
474. |
| | LOWER MIDDLE | 598. | 865.
851.
1133.
1060. | 1550.
1415.
2017.
1761.
2543. | 3303.
2669.
3979.
2840.
4694. | MET TND! N
MANIJF'G
ACRES | 1. | 42.
34.
50. | 50.
38.
51.
54. | 61.
66.
53.
48. |
| | INCOME
HH S | 97. | 283.
271.
407.
364. | 514.
463.
620.
556.
770. | 956.
834.
1116.
844.
1273. | NET COM-
MERCTAL
ACRES | 43. | 201.
188.
316. | 485.
609.
597.
862. | 1059.
889.
1328.
1036.
1570. |
| | EMPLNY- | 365. | 4068.
3397.
6487.
6053. | 8862.
9577.
12275.
12174.
17012.
16046. | 21166.
18674.
26369.
21909.
30660.
26685. | NET BES-
IDENTIAL
ACRES | 665. | 1143.
1123.
1625.
1568. | 2248.
2147.
2986.
2754.
3576. | 3824.
3126.
4400.
3259.
5132.
3551. |
| | TOTAL
400SE-
HOL 9S | 1337. | 2170.
2119.
3158. | 4672.
4176.
6238.
5294.
7960. | 10339.
8300.
12067.
8698.
14261. | .USEN. | 722. | 1457.
1411.
2100.
2030. | 2843.
2843.
3845.
3621.
4746. | 4413.
6178.
4757.
7206. |
| HOPK I NT ON | PULLA-
TION | 4932. | 7629.
7449.
10769. | 14231.
21241.
18032.
27035. | 35183.
28251.
41059.
29606.
48518. | VACANT
(AVAIL)
ACRES | 13526. | 12485.
12548.
11735.
11817. | 10804.
10847.
9652.
9925.
8592. | 7981.
8971.
6899.
8564.
5647. |
| 30 HUPK | | 1940 | 1980 HICH
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LTW
2040 HIGH
2040 LTW
2050 HIGH
2050 LTW | | 1960 | 1980 HICH
1980 LOW
1990 HICH
1990 LOW | 2020 HICH
2010 HICH
2010 HICH
2010 HICH
2010 HICH
2010 HICH | 2030 1 CM
2040 4 TCH
2040 4 TCH
2050 4 TCH
2050 4 TCH |

METROPOLITAN DISTRICT COMMISSION -- MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMER-
CIAL | 980.
1652. | 2298.
2197.
2564.
2305. | 2826.
2713
3574.
3152.
4250. | 4862.
3685.
5750.
4284
6309.
4889. | PES | 0-1003
Page 1 | | | |
|------------------|-----------------|--|--|---|-------------------------------|------------------|--|---|--|
| INDUST./ | | 986.
814.
1131.
999. | 1218.
1199.
1481.
1480.
1639. | 1878.
2151.
2099.
2359.
2260. | TOTAL ACPES | 7558 | | *************************************** | |
| | 0.00 | | | | RESTRICT
OPEN
SPACE AC | 615. | 636.
635.
676. | 700.
691.
734.
754. | 754.
730.
770.
782.
789. |
| | 713. | 941.
816.
1121.
959. | 1139.
966.
1133.
956.
1112. | 1120.
629.
1122.
420.
1059. | STREETS/ PHIGHWAYS ACRES | 313. | 459.
447.
517. | 545.
528.
591.
562.
621. | 622.
565.
653.
574.
680. |
| . DRY . | 655.
1284. | 423.
700.
700. | 370.
370.
185.
93. | 200.0. | EXTENSIV
INSTITUT
ACRES | 55.
55. | | 55.
55.
55. | 55°
55°
55°
55° |
| | 400.
741. | 1084.
1052.
1358.
1288. | 1556.
1450.
1721.
1556.
1866. | 1959.
1644.
2026.
1651.
2161. | EXTENSIV
INDUST'L
ACRES | 127. | 127.
127.
127. | 127.
127.
127.
127. | 127.
127.
127.
127.
127. |
| UPPER | 741.
1346. | 1860.
1812.
2223.
2111. | 2490.
2327.
2708.
2479.
2887. | 2865.
2515.
2931.
2515.
2983.
2491. | NET IND/
NON-MFG
ACP ES | 28. | 99.
87.
108. | 114.
113.
132.
131.
142. | 158.
176.
173.
190. |
| | 1309.
1799. | 2227.
2180.
2674. | 3042.
2831.
3395.
3739.
3299. | 3952.
3393.
4276.
3460.
4600. | MET IND! HANUF'G | 58. | 57.
38.
70. | 58.
48.
51.
41.
47. | 43.
43.
17.
47. |
| LOW | 443.
545. | 559.
553.
629.
601. | 712.
668.
811.
744.
917. | 1004.
871.
1101.
877.
1205. | MERCIAL
ACRES | 135. | 271.
264.
289.
272. | 306.
299.
356.
328.
401. | 442.
377.
501.
403.
538. |
| TOTAL
EMPLOY- | 2529.
4013. | 4648.
3906.
5515.
4964. | 5553.
5248.
6372.
5772.
7094. | 7860.
6391.
9022.
6804.
9926. | NET RES-
IDENTIAL
ACRES | 872.
1336. | 1885.
1851.
2382.
2285. | 2649.
2516.
3020.
2807.
3240. | 3124.
2680.
3309.
2707.
3514. |
| TOTAL
HOUSE- | 4431. | 5730.
5597.
6884.
6527. | 7800.
7276.
8636.
7866.
9409. | 9780.
8424.
10335.
8503.
10949.
8544. | .USED. | 1094. | 2312.
2240.
2849.
2715. | 3127.
2975.
3559.
3830.
3490. | 3768.
3238.
4030.
3300.
4290.
3366. |
| • | 9666.
16084. | 20752.
20272.
24218.
22968. | 27423.
25590.
29484.
25866.
32115. | 32396.
27922.
34227.
28182.
35159. | VACANT
(AVATL)
ACRES | 5355. | 3969.
4053.
3334.
3492. | 3003.
3182.
2493.
2790.
2171. | 2233.
2844.
1923.
2769.
1618. |
| 40 HIDSON | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LIW
2010 HIGH
2010 LIW
2020 HIGH
2020 HIGH | 2030 HIGH
2040 LOW
2040 LOW
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH |

METRIPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMER-
CIAL
EMPLOYMT | 957. | 1143.
1112.
1216.
1136. | 1251.
1227.
1366.
1289.
1537. | 1626.
1600.
2131.
1812.
2282.
2118. | PFS | .619. | | | |
|---------|----------------------------------|-------|-----------------------------------|---|---|-------------------------------|--------------|--|---|---|
| | INDUST./
NOW-MEG.
EMPLOYMT | 196. | 395.
327.
442.
396. | 452.
443.
491.
522.
536. | 613.
643.
686.
733.
728. | TOTAL ACPES | 191 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | :: | .i.°° | | | RESTRICT
OPEN
SPACE AC | 421.
421. | 421.
421.
421.
421. | 421.
421.
421.
421.
421. | 421.
421.
421.
422. |
| | MANUF G | •• | 94. | | | STREETS/
HIGHWAYS
ACRES | 220. | 213.
212.
212.
209. | 210.
207.
210.
205.
209. | 215.
221.
208.
227.
215. |
| | MANUF 'G
EMPLOYMT | :: | 0.
23. | | 19.
18.
25.
200.
200. | EXTENSIV
INSTITUT
ACPES | 36 | , v, v, | | |
| | H1GH
INCOME
HH°S | 327. | 95. | 86.
103.
97.
127.
108. | 237.
300.
280.
300.
417. | EXTENSIV
INDUST L
ACRES | :: | | | |
| | S.HH ONI | 464. | 645.
644.
568.
569. | 526.
533.
488.
502.
469. | 450.
450.
450.
450.
400. | NET IND/
NON-MFG
ACPES | | 21.
17.
24. | 24.
28.
28.
30. | 36.
38.
41.
44.
43. |
| | LOWER MIDDLE | 834. | 1193.
1192.
1205.
1188. | 1162.
1131.
1127.
1088.
1062. | 1100.
1100.
1200.
1200. | MANUF'S
ACRES | •• | 3.
4. 3. | | |
| | INCURE
HH.S | 500. | 520.
519.
516.
509. | 509.
500.
478.
477. | 437.
425.
410.
425.
453. | NET COM-
MERCIAL
ACRES | 158. | 157.
155.
162.
157. | 164.
163.
172.
167.
183. | 203.
223.
202.
233.
233. |
| | FUPL OY- | 1059. | 1632.
1521.
1787.
1636. | 1703.
1671.
1857.
1784.
2059. | 2460.
2261.
2843.
2569.
3210. | NET RES-
IDENTIAL
ACPES | 800. | 701.
701.
677. | 661.
637.
636.
601.
607. | 615.
540.
618.
535.
640. |
| | TOTAL
40USE-
HOLDS | 1894. | 2453.
2466.
2352.
2335. | 2283.
2243.
2219.
2185.
2135. | 2224.
2125.
2240.
2125.
2520. | ·USED. | 962. | 882.
875.
847. | 850.
824.
835.
795.
820. | 854.
766.
882.
781.
922. |
| | POPULA- | 1055. | 8863.
8909.
8264. | 7884.
7797.
7504. | 7816.
7459.
7873.
7469.
8953. | VACANT
(AVATL)
ACRES | :0 | 98.
106.
114.
145. | 132.
162.
148.
193.
164. | 123.
223.
90.
204.
43. |
| 41 HULL | | 1960 | 1980 HICH
1990 LOW
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LCW
2040 HIGH
2050 LCW
2050 HIGH
2050 LCW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 HOW | 2000 HIGH
2000 1 OW
2010 HIGH
2010 LCW
2020 HIGH
2020 1 CW | 2030 HIGH
2030 LCM
2040 HIGH
2040 LCM
2050 HIGH
2050 LCM |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 2686. | 4125.
3999.
4793.
4333 | 5223.
4951
6100.
5388
6996. | 7959.
6346
9383.
7003
10456. | CRES | | | | |
|------------|-----------------------------------|--------|--|--|--|-------------------------------|------------|--|--|---|
| | INDUST. /
NON-HFG.
EMPLOYMT | 187. | 778.
642.
1143.
1001. | 1289.
1275.
1574.
1564.
1761. | 2071.
2030.
2420.
2323.
2742.
2593. | TOTAL ACRE | 21344. | | | |
| | VERY WET
MANUF G | 66 | :1:0 | | | RESTRICT
OPEN
SPACE AC | 9983. | 10000.
9999.
10053. | 10065.
10105.
10105.
10091.
10128. | 10131.
10108.
10156.
10113.
10169. |
| | MANUF G | 112. | 52.
38.
0. | | | STREFTS/
HIGHWAYS
ACRES | 561. | 749.
739.
832.
809. | 866.
845.
917.
884.
958. | 979.
909.
1029.
1077. |
| | MANUF G | 789. | 1325.
905.
2026.
1314. | 2008.
1363.
2116.
1477.
2254. | 2300.
1600.
2477.
1752.
2137. | EXTENSIV
INSTITUT
ACRES | 24. | 24.
24.
24. | 24.
24.
24.
24. | 24.
24.
24.
24.
24.
24. |
| | HIGH
INCOME
HH'S | 470. | 777.
755.
1037. | 1254.
1164.
1460.
1299.
1672. | 1977.
1605.
2190.
1698.
2641. | EXTENSIV
INDUST'L
ACRES | 161. | 161.
161.
161. | 161.
161.
161.
161.
161. | 161.
161.
161.
161. |
| | UPPER
MIDDLE
INC HH'S | 617. | 1122.
1099.
1397. | 1654.
1532.
1909.
1713.
2174. | 2448.
2085.
2704.
2111.
3000. | NET IND/
NON-MFG
ACRES | 62.
86. | 121.
112.
145.
136. | 155.
154.
174.
186. | 201.
204.
230.
224.
252. |
| | LOWFR
MT DOLE
INC HH'S | 1045. | 1538.
1511.
1840.
1745. | 2115.
1975.
2406.
2186.
2713. | 3039.
2583.
3424.
2675.
3834. | NET IND/
MANUF'G
ACRES | 50. | 59.
47.
78. | 77.
80.
62.
84. | 91.
71.
96.
83. |
| | LOW | 376. | 567.
557.
674. | 759.
710.
847.
934. | 982.
864.
1056.
868.
1122. | NET COM-
MERCIAL
ACRES | 1832. | 2553.
2545.
2598.
2567. | 2626.
2608.
2685.
2637.
2745. | 2809.
2701.
2904.
2745.
2975. |
| | TOTAL
EMPLOY-
MENT | 3774. | 6281.
5584.
7962.
6648. | 8520.
7590.
9790.
8430.
11011. | 12330.
9976.
14279.
11078.
15335. | NET RES-
IDENTIAL
ACRES | 985. | 1742.
1709.
2399.
2301. | 2664.
2538.
3054.
2852.
3337. | 3379.
2878.
3689.
2949.
4096. |
| | TOTAL
HOUSE-
HOLDS | 2509. | 4004.
3922.
4948.
4690. | 5782.
5381.
6621.
5976.
7493. | 8445.
1137.
9374.
7352.
10597. | · USED .
ACR ES | 2930. | 4476.
4412.
5220.
5061. | 5522.
5359.
5993.
5724.
6352. | 6486.
5955.
6919.
7406. |
| НЭ | POTAL
POPULA-
TION | 10750. | 13005.
12742.
15026.
15200. | 18695.
17412.
21380.
19314.
24169.
21027. | 27217.
23031.
30188.
23719.
34103. | VACANT
(AVAIL)
ACRES | 7686. | 5935.
6010.
5055.
5243. | 4698.
4890.
4144.
4461.
3722. | 3563.
4289.
3056.
4124.
2487.
3830. |
| 42 IPSWICH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 I OW
2020 HIGH
2020 LOW | 2030 HIGH
2030 L ^M
2040 HIGH
2050 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 L TM
2010 HIGH
2010 L TM
2020 L TM
2020 L TM | 2030 HIGH
2030 LOW
2040 HIGH
2040 LCW
2050 HIGH
2050 LCW |

METROPOLITAN DISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2950

| | COMMER-
CIAL
EMPLOYMT | 2643. | 4990.
4830.
6542.
5705. | 6927.
8814.
7698.
10058. | 19200.
9000.
10000.
11000. | CR ES | 20 Sugar | 1000 | 244
1445
1445
1445
1445
1445 | |
|--------------|----------------------------------|-------------------|--|--|--|-------------------------------|----------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 874. | 1200.
1200.
2 069.
1996. | 2400.
2596.
2951.
3156.
3266. | 3500.
3700.
4000. | TOTAL ACRES | 10643. | | | 1 |
| | VERY WET I | •• | | | | RESTRICT
OPEN
SPACE AC | 897. | 953.
950.
1010.
1006. | 1036.
1024.
1064.
1043.
1086. | 1086.
1057.
1087.
1058. |
| | MANUE'S | *6.
20. | | | | STREFTS/ PHIGHWAYS ACRES | 904. | 1147.
1139.
1244. | 1289.
1268.
1342.
1379.
1379. | 1381.
1325.
1388.
1334.
1396. |
| | MANUF G | 195. | 1969.
1553.
2127.
1549. | 2123.
1658.
2018.
1515.
1241.
859. | 844.
576.
566.
371.
246. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 2933. | 4221.
4164.
4527.
4393. | 4802.
4604.
5005.
4711.
5250. | 5400.
4767.
5400.
5400.
5900. | EXTENSIV
INDUSTIL
ACRES | 181. | 181.
181.
181. | 181.
191.
191.
181.
191. | 181.
181.
181.
181. |
| | H TOOLE
INC HH'S | 1994. | 3105.
3090.
3856.
3760. | 4500.
4196.
4997.
4499.
5614. | 6200.
6200.
5400.
5400.
5400. | NET IND!
NON-MEG
ACRES | 93. | 116.
116.
174.
169. | 196.
232.
232.
246.
253. | 269.
282.
282.
302. |
| | LOWER MIDDLF | 1616. | 2121.
2107.
2359.
2325. | 2878.
2675.
3386.
3023.
4060.
3411. | 4700.
4700.
4700.
4700. | MET IND/ | 50. | 68.
56.
73. | 73.
69.
54.
54. | 29.
21.
19.
13. |
| | INCOME
HH'S | 431. | 656.
649.
747.
733. | 903.
871.
1100.
1274. | 1500.
1100.
1600.
1600.
1600. | MET COM- | 368. | 651.
641.
755. | 812.
780.
906.
832.
989. | 998.
918.
1025.
952.
1052. |
| | FOTAL
EMPLOY- | 3758. | 8160.
7584.
10738. | 11921.
11180.
13783.
12370.
14564. | 14544.
13076.
14866.
13578.
15371. | NET RES-
IDENTIAL
ACRES | 3332. | 4997.
4967.
5635.
5581. | 5929.
5785.
6235.
6474. | 6466.
6052.
6479.
6479.
6479. |
| | HOUSE-
HOLDS | 6974. | 10103.
10010.
11488.
11210. | 13083.
12347.
14488.
13228.
16198.
14121. | 17800.
14567.
17900.
14541.
17900. | ·USED. | 3802. | 5832.
5779.
6636.
6508. | 7009.
6833.
7443.
7132.
7759. | 7763.
7260.
7805.
7309.
7846. |
| NOTON | PUPULA- | 27691. | 35658.
35330.
39356.
38409. | 44779.
47276.
49555.
45272.
55371. | 60816.
49925.
61156.
49735.
61156. | VACANT
(AVATL)
ACRES | 4859. | 2531.
2593.
1573.
1725. | 1128.
1337.
613.
983.
23°. | 233.
820.
192.
762.
134. |
| 43 LEXINGTON | | 1940 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HTGH
2000 LCW
2010 HTGH
2020 LCW
2020 LCW | 2030 HIGH
2030 LM
2040 HIGH
2050 LM
2051 HIGH
2050 LM | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 HIGH
2020 LOW | 2030 HTGH
2030 LOW
2040 LTGH
2040 LOW
2050 LOW
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 272. | 591.
566.
774.
658. | 1600.
1300
2400.
2000.
3200.
2700 | 3500.
3000.
3300.
4000.
3500 | SPES | | | | |
|------------|----------------------------------|-------|--|---|--|-----------------------------------|-------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 124. | 250.
250.
322.
320. | 650.
600.
1000.
1400.
1300. | 1500.
1200.
1500.
1200.
1500. | TOTAL ACPES | 9549 | | | |
| | WERY WET I | •• | 3.
0. | | | RESTRICT
OPEN
SPACE AC | 1129. | 1156.
1156.
1192.
1192. | 1235.
1224.
1282.
1257.
1332.
1291. | 1366.
1292.
1425.
1305.
1497. |
| | MANUF'S | •• | 128.
110.
0. | | , , , , | STREETS/ R
HIGHWAYS
ACRES S | 310. | 443.
443.
486.
484. | 549.
531.
611.
677. | 713.
627.
769.
643.
836. |
| | MANUF G
EMPLOYMT | :: | ::: | 5.
5.
18. | | EXTENSIV SINSTITUT H | | N N | | |
| | HIGH
INCOME
HH'S | 639. | 1007.
1000.
1191.
1166. | 1382.
1288.
1565.
1386.
1788. | 2221.
1702.
2481.
1819.
2993. | EXTENSIVE INDUST*L 1 | 34. | 34.
34.
34. | 34.
34.
34.
34.
34. | 34.
34.
34.
34. |
| | UPPER
MIDDLE
INC HH'S | 278. | 684.
673.
946. | 1226.
1112.
1462.
1258.
1738. | 2200.
1711.
2578.
1755.
2989. | NET IND! E | 220. | 228.
228.
233.
233. | 255.
251.
278.
305. | 311.
275.
311.
275.
311. |
| | LOWER
MI DOLE
INC HH'S | 405. | 667.
662.
782.
766. | 1009.
939.
1228.
1094.
1522. | 2059.
1596.
2542.
1726.
3035. | MET TND/ N
MANUF'G
ACRES | :0 | | | |
| | LOW
I NCOME
HH'S | 105. | 96.
96.
130.
126. | 235.
216.
367.
304.
538. | 603.
969.
617.
1163. | MERCIAL
ACRES | 51. | 92.
90.
104. | 159.
212.
186.
266. | 286.
252.
306.
272.
319.
286. |
| | TOT AL
EMP LOY- | 397. | 971.
929.
1097. | 2250.
1907.
3405.
2970.
4618. | 5004.
4200.
5300.
4500.
5500. | NET RES- | 1203. | 2300.
2300.
2700.
2700. | 3175.
3050.
3700.
3425.
4250. | 4635.
3806.
5286.
3959.
6090. |
| | TOTAL
HUUSE-
HOLOS | 1427. | 2455.
2431.
3049.
2968. | 3852.
3556.
4621.
4043.
5585. | 7270.
5612.
8571.
5917.
10180. | · USED · ACRES | 1475. | 2624.
2622.
3037.
3029. | 3589.
3441.
4191.
3886.
4821.
4332. | 5232.
4334.
5903.
4506.
5720. |
| ILN . | TOTAL
PIPULA-
TION | 5613. | 9548.
9556.
11598. | 14570.
13473.
17416.
15275.
20424. | 26490.
20520.
31172.
21620.
36963. | VACANT
(AVAIL)
ACRES | 6596. | 5287.
5290.
4795.
4805. | 4138.
4314.
3426.
3787.
2681. | 2198.
3258.
1414.
3055.
457.
2653. |
| 44 LINCOLN | | 1960 | 1980 HIGH
1980 L CW
1990 HIGH
1990 L CW | 2000 HIGH
2000 LM
2010 HIGH
2010 I DW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LM
2010 HIGH
2010 LM
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH |

METPOPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTRRY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMED-
CIAL
EMPLOYMT | 318. | 889.
844.
1367. | . 1815.
. 1815.
. 3045.
6286. | 8221.
5795.
10409.
6903.
11961. | ACPFS | 11098. | | | |
|-----------|------------------------------|--------------|-------------------------------------|---|--|-------------------------------|--------|--|---|---|
| | INDUST. / | 106. | 325.
268.
519.
448. | 680.
1272.
1316.
1838. | 2467.
2443
3047.
2910
3540. | TOTAL ACP | | | | |
| | VERY WET MANUFIG | •• | | | • • • • | RESTRICT
OPEN
SPACE AC | 1440. | 1457.
1456.
1516.
1511. | 1546.
1538.
1592.
1577.
1622. | 1634.
1601.
1664.
1608.
1704. |
| | WANDE G
WANDE G | 634. | 90.
70.
124. | 128.
96.
127.
123. | 125.
125.
81. | STPETS/
HIGHWAYS
ACRES | 548. | 642.
637.
718.
705. | 760.
748.
840.
811.
911. | 956.
878.
1021.
905.
1080. |
| | MANUF.G | 310. | 993.
791.
1071.
831. | 1067.
1103.
1162.
1162. | 1287.
1023.
1353.
1072.
1044. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH S | 195. | 610.
588.
928.
870. | 1215.
1111.
1501.
1299.
1812. | 2291.
1801.
2593.
1942.
3208. | EXTENSIV
INDUST'L
ACRES | 224. | 224.
224.
224. | 224.
224.
224.
224. | 224.
224.
224.
224.
224. |
| | MIDDLE
MIDDLE
INC HH'S | 441.
606. | 814.
794.
1130.
1058. | 1469.
1335.
1840.
1602.
2267.
1870. | 2804.
2326.
3228.
2374.
3697. | NET IND/ F
NOM-MEG I | 38. | 48.
44.
61.
56. | 71.
73.
111.
1149.
159. | 191.
189.
229.
262.
266. |
| | LOWER MIDDLE | 583. | 854.
836.
11119.
1045. | 1391.
1279.
1706.
1513.
2079. | 2612.
2129.
3136.
2267.
3684. | MET IND!
MANIF'S
ACRES | 53. | 53.
47.
56. | 56.
57.
59.
59. | 63.
65.
49.
44. |
| | INCOME
HH'S | 153. | 255.
249.
296.
280. | 351.
444.
440.
564. | 604.
820.
610.
939. | MEDCIAL
MEDCIAL
ACPES | 95. | 187.
183.
218.
202. | 255.
248.
381.
330.
546. | 675.
514.
821.
587.
925. |
| | EMPL DY- | 1368. | 2298.
1973.
3081.
2496. | 3785.
3461.
6315.
5332.
9410. | 12099.
9251.
14934.
10885.
16626. | NET RES-
IDENTIAL
ACRES | 730. | 1413.
1390.
2073.
2002. | 2403.
2304.
2920.
2733.
3250. | 3382.
2880.
3722.
2963.
4160.
3150. |
| | TOTAL
HOUSE- | 1373. | 2533.
2468.
3473.
3253. | 4426.
4052.
5491.
4815.
6722.
5583. | 8416.
6860.
9778.
7193.
11528. | *USFD*
ACRES | 914. | 1701.
1664.
2409.
2309. | 2785.
2675.
3470.
3227.
4004. | 4313.
3634.
4837.
3824.
5396.
4135. |
| LITTLETON | PODULA- | 5109. | 8419.
8397.
11467.
10743. | 14513.
13378.
18127.
15996.
22190.
18432. | 22646.
32274.
23745.
38050.
26207. | VACANT
(AVAIL)
ACRES | 7971. | 7074.
7117.
5231.
6349. | 5783.
5914.
4971.
5259.
4337. | 3974.
4762.
3351.
4537.
2694.
4169. |
| 45 1177 | | 1960 | 1980 HTCH
1980 LTCH
1990 HTCH | 2000 HIGH
2000 LIW
2010 HIGH
2010 LIW
2020 HIGH
2020 LIW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HTGH
1980 LIW
1990 HTGH
1900 LIW | 2000 HIGH
2010 HIGH
2010 LOW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LCW
2050 HIGH
2050 LOW |

| COMMER-
CIAL
EMPLOYMT | 14086. | 13507.
12889.
12000.
12000. | 11000.
11000.
10000.
9000. | 8272.
7318.
7840. | RES | | | | |
|----------------------------------|--------|--------------------------------------|---|--|-----------------------------------|-------|--|---|---|
| INDUST./
NON-MFG.
EMPLOYMT | 5463. | 7366.
6131.
6442.
5564. | 5800.
5150.
5150.
4800.
4500. | 4254.
4281.
4103.
4095.
3878. | TOTAL ACRES | +117 | | | |
| VERY WET I MANUF'G N | :: | : | | | RESTRICT
OPEN
SPACE AC | 2073. | 2073.
2073.
2073.
2073. | 2073.
2073.
2073.
2073.
2073. | 2073.
2073.
2073.
2073.
2073. |
| MANUF'G | 7922. | 9033.
7117.
8548.
6647. | 7333.
5504.
6124.
4432.
5019. | 4189.
2318.
3416.
1598.
2907. | STREETS/ R
HIGHWAYS
ACRES S | 1031. | 1045.
1021.
1017. | 999.
976.
985.
961.
964. | 948.
904.
936.
875.
926. |
| MANUF G | 14556. | 12000.
12000.
10500.
10500. | 9600.
9600.
8800.
8000. | 6751.
6965.
5363.
5789.
5199. | EXTENSIV S
INSTITUT H
ACRES | 85. | 85.
85.
85. | 8 85.
8 85.
85.85.
85. | 85.
85.
85.
85.
85. |
| HIGH
INCOME
FH'S | 3781. | 3157.
3132.
2602.
2626. | 2354.
2353.
2228.
2239.
2111. | 1800.
1600.
1600.
1400.
1100. | EXTENSIV E INDUSTIL I | 109. | 109.
109.
109. | 109.
109.
109.
109.
109. | 109.
109.
109.
109. |
| UPPER
M TOOLE
INC HH'S | 6790. | 5764.
5764.
4538.
4616. | 3866.
4011.
3486.
3668.
3349. | 2300.
2200.
2000.
1800.
1500. | NET IND/ ENON-WEG I | 148. | 290.
208.
254.
189. | 228.
175.
203.
163.
177. | 165.
162.
139.
153. |
| LOWER
MIDDLE
INC HH'S 1 | 12981. | 15314.
15220.
16229.
15826. | 16671.
16002.
17021.
16106.
17074. | 16900.
15700.
17000.
15700.
15766. | MET IND / MANUF G | 218. | 204.
185.
185. | 164.
145.
128.
126. | 106.
85.
74. |
| LOW
INCOME
HH'S | 7160. | 6048.
6056.
6018.
6025. | 5853.
5764.
5814.
5609.
5677. | 6000.
6000.
5000.
6026.
5522. | NET COM- P
MERCIAL
ACRES | 321. | 308.
294.
274.
274. | 251.
258.
228.
228.
205. | 193.
181.
189.
167.
179. |
| TOTAL
EMPLOY- | 42027. | 41906.
38137.
3749C.
34711. | 33733.
31254.
30074.
28032.
26519. | 23664.
21520.
21154.
18800.
19825.
17866. | NET RES- | 2251. | 2213.
2200.
2115.
2069. | 2078.
1997.
2078.
1963.
2006. | 1935.
1632.
1884.
1430.
1842. |
| TOTAL
HOUSE-
HOLDS | 30712. | 30282.
30172.
29387.
29093. | 28145.
28129.
28548.
27622.
27944. | 24500.
24500.
26600.
23800.
25226. | ·USED .
ACRES | 2939. | 3015.
2887.
2827.
2697. | 2721.
2568.
2654.
2482.
2515. | 2402.
2049.
2319.
1810.
2252.
1599. |
| POPULA- | 94478. | 89090.
88769.
86493.
85640. | 84631.
82845.
84060.
81373.
82309. | 79571.
72321.
78411.
70291.
77325. | VACANT
(AVAIL)
ACRES | 938. | 848.
1000.
1064.
1216. | 1198.
1364.
1269.
1464.
1429.
1671. | 1558.
1955.
1653.
2223.
1730. |
| | 1980 | 401 0661
H010 0661 | 2000 HIGH
2000 I IN
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1999 LOW | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH
2020 I CW | 2030 HICH
2030 LOW
2040 HIGH
2050 HICH
2050 LOW |

ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2750

| | COMMEP-
CIAL
FMPLOYMT | 804. | 2358.
2233.
3188.
2712. | 4361.
4339.
6032.
5383.
7479. | 8144.
6689.
9142.
7179.
9558. | Sus | | | | |
|--------------|--------------------------------------|-----------------|---|---|--|-----------------------------------|-------|--|---|--|
| | INDIJST./
VON-MEG.
EMPL NYMT F | 168. | 837.
690.
1188.
1040. | 1542.
1664.
2079.
2233.
2403. | 2664.
2824.
2950.
3086.
3107. | TOTAL ACRE | 6714. | | | |
| | VERY WET I MANUE'S N | | | | | RESTRICT
OPEN
SPACE AC | 1762. | 1779.
1778.
1818. | 1831.
1823.
1843.
1833.
1851. | 1851.
1839.
1857.
1841.
1865. |
| | MANITE'S | | 0.
95. | 56.
47.
34. | | STREETS/ R
HIGHWAYS
ACRES S | 407. | 530.
522.
592.
572. | 627.
614.
667.
698.
667. | 705.
657.
727.
667.
741. |
| | MANJE 6 | 3. | 556.
301.
594. | 591.
325.
607.
343.
631. | 665.
882.
409.
629. | EXTENSIV SINSTITUT H | 28. | 28.
28.
28.
28. | 28.
28.
28.
28.
28. | 28.
28.
28.
28.
28. |
| | HIGH
INCOME
HH S | 1043. | 1396.
1373.
1544.
1492. | 1665.
1584.
1787.
1654.
1902.
1711. | 1962.
1687.
2049.
1713.
2234.
1806. | EXTENSIV EINDUSTIL I | 163. | 163.
163.
163. | 163.
163.
163.
163.
163. | 163.
163.
163.
163.
163. |
| | STHH ONI | 688. | 1077.
1054.
1300.
1238. | 1515.
1413.
1716.
1557.
1905. | 2019.
1778.
2122.
1788.
2222. | NET IND/
NON-MEG I | ** | 26.
21.
41. | 55.
76.
78.
89. | 100.
106.
111.
116.
117. |
| | L OWER MIDDLE | 441. | 1042.
1020.
1307. | 1549.
1427.
1789.
1606.
2029.
1762. | 2251.
1939.
2475.
1996.
2693. | NET IND/ N
MANUF G
ACP ES | . 8 | 24.
16.
26.
18. | 26.
26.
18.
25.
18. | 26.
27.
27.
19.
25. |
| | I NCOWE | 153. | 402.
402.
374. | 495.
595.
538.
698. | 783.
698.
853.
702.
910. | MERCIAL
MERCIAL
ACRES | 115. | 178.
170.
234.
202. | 312.
310.
423.
380.
520. | 564.
467.
631.
500.
658. |
| | TOTAL
CMPLOY-
MENT | 983.
1651. | 3751.
3224.
5025. | 6545.
8765.
7993.
10513. | 11473.
9909.
12774.
10674.
13295.
11600. | VET RES-
INFNTIAL
ACRES | 1115. | 1945.
1913.
2421.
2325. | 25 88.
2478.
27 41.
2603.
28 39. | 2787.
2480.
2868.
2496.
2961. |
| | TOTAL
HOUSE - | 2326. | 3843.
3765.
4553.
4328. | 5224.
4881.
5888.
5356.
534. | 7015.
6102.
7498.
5199.
8058. | ACRES | 1189. | 2173.
2120.
2722.
2580. | 2981.
2865.
3267.
3984.
3473. | 3477.
3077.
3636.
3132.
3761. |
| I Y'INETEL N | TOTAL
STORY | 8398.
10818. | 12080.
12813.
15040.
14205. | 17253.
15120.
19444.
17689.
21575. | 22463.
19539.
24009.
19350.
25801. | VACANT
(AVATL)
ACRES | 3164. | 2341.
2104.
1393.
1560. | 1219.
746.
962.
532. | 491.
955.
303.
884.
157. |
| AT LYTING | | 1960 | 1980 HIGH
1980 I CW
1990 HIGH
1990 LCW | 2000 4164
2000 LCW
2010 4164
2010 LCW
2020 4164
2020 LCW | 2030 HIGH
2030 LM
2040 HIGH
2040 LM
2050 HIGH
2050 LM | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HTGH
2030 LCM
2040 HTGH
2040 LTGH
2050 HTGH |

METRIPOLLITAN DISTOLCT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMES-
CIAL
EMPLOYMT | 6686.
9286. | 6859.
6000.
6000. | 5600.
5600.
5300.
5000.
5000. | 4519.
4297.
4271.
3959.
4012. | RES | 3283. | | | |
|-----------|----------------------------------|----------------|--|--|---|----------------------------------|-------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 3205. | 6422.
5339.
6000. | 5600.
5300.
5300.
5000.
5000. | 4702.
4734.
4529.
4565.
4285. | TOTAL ACRES | 326 | | | |
| | VERY WET I | 164. | 87.
80.
31.
28. | | | RESTRICT
OPEN
SPACE AC | 428. | 428.
428.
428.
428. | 428.
428.
428.
428.
428. | 428.
428.
428.
428. |
| | MANUF'S | 2043. | 2364.
1869.
2292.
1826. | 2086.
1590.
1913.
1417.
1738. | 1600.
820.
1453.
549.
1276. | STREETS/
HIGHWAYS
ACRES | 605. | 644.
624.
622.
614. | 612.
601.
606.
593.
593. | 582.
582.
540.
579. |
| | MANUE G | 2716. | 1500.
1500.
1000.
1000. | 900.
900.
800.
750. | 500.
500.
325.
325.
650. | EXT ENS IV
I NSTITUT
ACRES | •• | | • • • • | |
| | HIGH
INCOME
HH'S | 2533. | 2244.
2228.
1817.
1864. | 1560.
1623.
1405.
1483.
1249. | 900.
750.
750.
650. | EXTENSIV
INDUST'L
ACRES | 49. | 49. | 49.
49.
49.
49. | 49.
49.
49.
49. |
| | MIDDLE
INC HH'S | 4424. | 3693.
3676.
2855.
2905. | 2327.
20435.
2065.
2196.
1775. | 1400.
1200.
1300.
1200.
1200. | NET IND/
NON-MFG
ACRES | 74. | 247.
175.
231.
219. | 216.
204.
204.
193.
193. | 181.
173.
174.
167.
160. |
| | LOWER WIDDLE | 8145. | 9451.
9332.
9882.
9596. | 10047.
9562.
10160.
9518.
10020. | 10000.
8000.
10000.
7200.
10000.
6500. | MET IND/
MANUF G
ACRES | 66. | 53.
46.
44. | 40.
36.
30.
33.
26. | 28.
18.
24.
13.
26. |
| | INCOME | 2854. | 3461.
3410.
3528.
3417. | 3578.
3412.
3637.
3410.
3611. | 3700.
3000.
2800.
4000.
2700. | MERCIAL
MERCIAL
ACRES | 175. | 189.
180.
157. | 147.
147.
139.
131.
131. | 118.
112.
112.
104.
108. |
| | FOTAL
EMPLOY-
MFNT | 14814. | 17584.
15647.
15323.
14853. | 14186.
13690.
13313.
12817.
12488. | 11321.
10350.
10579.
9398.
10223. | NET RES-
IDENTIAL
ACPES | 1425. | 1516.
1494.
1422.
1378. | 1384.
1318.
1373.
1282.
1256. | 1290.
1056.
1278.
1278.
859. |
| | TOTAL
HOUSE-
HOLDS | 17667. | 18849.
18646.
18093.
17782. | 17512.
17033.
17267.
16607.
16655. | 16000.
13100.
15850.
11750.
15850. | . JS FD .
ACRES | 1739. | 2005.
1994.
1854.
1792. | 1786.
1702.
1751.
1653.
1566. | 1618.
1359.
1588.
1231.
1574. |
| 7 | POPULA-
TION | 57676. | 55561.
54971.
53337.
52465. | 51582.
50293.
50973.
49058.
49196. | 47298.
38888.
46853.
34973.
46863. | VACANT
(AVATL)
ACRES | 462. | 287.
329.
400. | 498.
448.
569.
569. | 601.
890.
536.
1035.
652. |
| 48 MALNEN | | 1960 | 1980 HICH
1980 LOW
1900 HIGH
1900 LOW | 2000 HTGH
2000 LCW
2010 HTGH
2010 LCW
2020 HTGH
2020 HTGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1967 | 1980 HICH
1980 I NW
1990 HIGH
1990 L NW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HICH
2030 LIN
2040 HICH
2040 LIN
2050 HICH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYNT | 305. | 3300.
3300.
1000. | 1465.
1653.
2374.
2260.
3298. | 3300.
2876.
3300.
3300.
3300. | RES | | | | |
|------------|--|-------|--|--|---|-----------------------------------|---------------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 126. | 500.
500.
500. | 633.
741.
910.
1044.
1110. | 1148.
1277.
1262.
1379.
1321. | TOTAL ACRES | 1464 | | | |
| | VERY WET I
MANUF 'G N
EMPLOYMT E | •• | | | | RESTRICT
OPEN
SPACE AC | 440. | 494.
493.
502.
500. | 521.
547.
547.
538.
554. | 554.
556.
563.
553. |
| | MANUFIG PAPLOYMT E | 32. | 100. | 99.
95.
85.
65. | 45.
34.0.
8.0. | STREETS/ R
HIGHWAYS
ACRES S | 276. | 494.
489.
477. | 506.
550.
550.
561.
561. | 528.
504.
531.
515.
520. |
| | MANUF'G
EMPLOYMT E | 17. | 350.
350.
300. | 299.
303.
305.
316.
315. | 272.
265.
251.
261.
163. | EXTENSIV S
INSTITUT H | 157. | 157.
157.
157. | 157.
157.
157.
157. | 157.
157.
157.
157.
157. |
| | HIGH
INCOME
HH'S E | 298. | 914.
878.
1138.
1076. | 1390.
1281.
1651.
1447.
1921. | 1566.
1351.
1900.
1487.
1800. | EXTENSIV E INDUST'L I | 50. | 50.
50.
50. | 50.
50.
50.
50. | 50. |
| | UPPER
MIDDLE
NC HH'S | 243. | 890.
850.
1019. | 1276.
1170.
1585.
1388.
1925. | 2200.
1607.
2100.
1900.
2000. | NET TND/ ENDN-MEG I |
 | 21.
21.
21. | 28.
42.
48.
45. | 47.
53.
56.
56. |
| | LOWER
MI DOLF
INC HH'S I | 452. | 676.
672.
779. | 970.
919.
1216.
1103.
1499. | 1700.
1486.
1600.
1500.
1500. | MANUF'G
ACPES | •• | 15.
15.
16. | 16.
16.
15.
15. | 13. |
| | I NCOME
HH'S I | 196. | 194.
192.
166.
169. | 194.
194.
249.
240.
319. | 300.
300.
300.
300.
300. | NET COM- N
MERCIAL
ACRES | 4.6. | 262.
262.
80. | 111.
123.
171.
164.
192. | 192.
202.
192.
210.
192.
210. |
| | TOTAL
EMPLOY- | 480. | 4150.
4150.
1900.
1900. | 2497.
2796.
3684.
3698.
4787. | 4766.
4419.
4847.
4640.
4792. | NET PES- 1 | 867.
1165. | 2528.
2484.
2725.
2657. | 2957.
2872.
3282.
3141.
3366. | 2951.
2634.
2985.
2744.
2933.
2748. |
| | TOTAL
HOLDS | 1189. | 2574.
2593.
3101.
2964. | 3829.
3564.
4701.
4178.
5564. | 5766.
4744.
5900.
5187.
5600. | . USEN.
ACR ES | 921. | 2827.
2783.
2842.
2774. | 3111.
3744.
3511.
3369.
3619. | 3263.
2906.
3241.
3030.
3088. |
| PANCHESTER | POPULA-
TION | 3932. | 8595.
8337.
9963.
9523. | 11442.
11442.
15081.
13409.
18163. | 15219.
15219.
18919.
16635.
17959. | VACANT
(AVAIL)
ACRFS | 3098. | 919.
969.
912.
989. | 596.
672.
125.
290.
0. | 449.
405.
626.
559. |
| 49 MANCH | | 1940 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LTW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HTCH
2030 LTW
2040 HTGH
2040 LDW
2050 HTCH | | 1960 | 1980 LOW
1980 LOW
1990 HIGH
1990 I CW | 2000 HIGH
2000 LOW
2010 HIGH
2070 HIGH
2070 HIGH | 2030 LM
2030 LM
2040 HTH
2040 1 M
2060 HIGH
2060 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | CIAL
CIAL | 1. 1291. | 11. 2200.
499. 2200.
3. 2000.
452. 2000. | 77. 1762.
579. 2063.
12. 1530.
651. 1910.
11. 1199.
614. 1540. | 6. 1463.
740. 1646.
11. 1533.
877. 1708.
12. 1713.
923. 1956. | FOTAL ACPEC | 2829. | | | |
|------------|--------------------|--------------------|---|---|--|---|------------------------|--|--|---|
| | HET INDUST. | 0. 273.
0. 358. | 0. 601.
0. 613.
0. 613. | 0. 627.
0. 632.
0. 681.
0. 481. | 0. 616.
0. 681.
0. 771. | ** | 669. | 643.
643.
643.
643. | 646.
649.
654.
654.
654. | 657.
656.
657.
656.
665. |
| | F. VERY WET | 133. | 526.
455.
548.
466. | 593.
427.
502.
403.
591. | 505.
232.
505.
151.
386. | TS/ RESTRICT AYS OPEN ES SPACE AC | 330. 669.
360. 643. | 361. 643
360. 643
357. 643 | 354. 64
354. 64
355. 64
340. 64 | 348. 65
342. 65
334. 65
353. 66 |
| | MANIFO MAN JFOR | 198. 1 | 250. 5
250. 5
200. 5 | 100. 5 | 0. 0. 5
0. 5
200. 3 | EXTENSIV STREETS/
INSTITUT HIGHMAYS
ACRES ACRES | 0.03 | 0.00 | .0.0 | |
| | HIGH MAN | 2397. | 2478.
2475.
2303. | 2178.
2207.
2114.
2148.
2056. | 2131.
2011.
1735.
1634.
1797. | EXTENSIV EXTRI | .11. | 10.
10.
10. | 10.
10.
10.
10. | 10.
10.
10.
10. |
| | WIDDER I | 1336. | 1988.
1986.
2058.
2049. | 2115.
2143.
2157.
2218.
2179. | 2344.
2272.
2245.
2089.
2334. | NET IND/ EX
NON-MEG IN
ACRES | 12. | 17.
24.
18. | 19.
30.
19.
35.
14. | 23.
28.
24.
34. |
| | MIDDLE
INC HH'S | 1681. | 1993.
1971.
2036.
1766. | 2109.
1762.
2186.
1827.
1954. | 1885.
1799.
1938.
1815.
2077. | NET IND/
MANIF & | 26. | 57.
53.
55. | 45.
41.
34.
37. | 37.
37.
13.
40. |
| | TUCONF | .469 | 574.
570.
611. | 659.
597.
701.
613.
723. | 663.
567.
660.
786. | MERCIAL
ACRES | 92. | 148.
150.
135. | 3. 119.
8. 103.
8. 81. | 98.
112.
103.
116.
115. |
| | EMPL OY- | 1895. | 3576.
3404.
3362.
3118. | 2992.
3169.
2715.
3014.
2181. | 2585.
2618.
2720.
7686.
3070. | NET DES- | 1390. | 1592.
1583.
1583. | 1609.
152.
1649.
1581
1518. | 1604.
1518.
1503.
1394.
1594. |
| | HOLDS E- | 5899. | 7033.
7002.
7008. | 7952.
6710.
7158.
5875.
6912. | 6649.
6578.
6105.
6944. | *USED*
ACPES | 1520. | 1815.
1810.
1791. | 1791.
1734.
1812.
1788.
1650. | 1763.
1689.
1671.
1782.
1583. |
| MADALFHEAD | POPULA- | 18521. | 21251.
21157.
21175.
20304. | 21335.
20280.
21626.
20565.
20195. | 20518.
19432.
19227.
17857.
20288. | VACANT
(AVAIL)
ACPES | 299. | 0.
5.
152. | 28.
3.
22.
183. | 50.
149.
259.
18. |
| 50 WAD | | 1960 | 1980 HICH
1980 LCW
1900 HICH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 LOW | 2030 HTGH
2040 HTGH
2040 HTGH
2040 LTW
2050 HTGH | | 0761 | 1980 HICH
1980 LIW
1990 HIGH
1990 LIW | 2000 HTGH
2000 LCW
2010 HTGH
2020 HTGH
2020 HTGH | 2030 HIGH
2040 HIGH
2040 HIGH
2040 LOW
2050 HIGH
2050 I OW |

....

METROPOLITAN NISTRICT COMMISSION-WASTEWATED STUDY ACTIVITY HISTORY AND FMPIPIS ACTIVITY ALLOCATIONS 1969 - 2350

| | COMMED-
CIAL
FMDL OVNT | 1564. | 4934.
4730.
5890.
5237. | 6946.
6695.
9338.
8128.
11742. | 13349.
10411.
15477.
11295.
16769. | CPES | 14106. | | | |
|---------------|------------------------------|----------------|---|---|--|--------------------------------|--------|---|---|--|
| | INDUST ./ | 272. | 1680.
1387.
2116.
1872. | 2436.
2465.
3203.
3261.
3737. | 4302.
4298.
4879.
4742.
5308. | TOTAL ACPES | 141 | | | |
| | VEDY WET MANUE 'G | | ; · . ° | | | PESTBICT
OPEN
SPACE AC | 1409. | 1427.
1425.
1455.
1449. | 1472.
1464.
1497.
1483.
1513. | 1520.
1494.
1534.
1494.
1541. |
| | MANIJE 65
EMPL DYNT | 424. | 370.
316.
465.
387. | 475.
384.
472.
380.
459. | 468.
238.
471.
199.
941. | STREETS/
HIGHWAYS
ACRES | 559. | 774.
761.
826.
802. | 845.
931.
895.
986. | 1023.
939.
1072.
956. |
| | MANIJE 15
E MDL NYMT | 1887. | 3291.
2779.
3587. | 3575.
2980.
3673.
3802.
3206. | 4000.
3152.
4112.
3228.
2854. | EXTENSIV
INSTITUT
ACP ES | :: | : ⁻ : ⁻ | . · . · . · | |
| | HTCH | 673.
1227. | 1520.
1487.
1785.
1710. | 1998.
1872.
2176.
1987.
2351. | 2553.
2553.
2128.
2128.
2590. | EXTENSIV
INDUST'L
ACRES | 230. | 230.
230.
230.
230. | 230.
230.
230.
230.
230. | 230.
230.
230.
230.
230. |
| | NOUL F | 1423. | 2880.
2830.
3222.
3095. | 3506.
3307.
3778.
3481.
4024.
3610. | 4098.
3581.
4122.
3365.
4061. | NON-MEG
NON-MEG
ACRES | 47. | 175.
155.
204.
187. | 225.
227.
276.
312.
317. | 349.
349.
379.
417. |
| | LOWER WINDLE | 2486. | 4116.
4043.
4764.
4536. | 5314.
4979.
5866.
5368.
6411. | 7600.
6300.
8300.
6500.
9000. | MET IND/
MANUF'G
ACRES | 50. | 79.
67.
88. | 87.
90.
75.
92. | 101.
78.
103.
79.
86. |
| | INCUME | 1026. | 1167.
1145.
1330.
1265. | 1496.
1406.
1695.
1561.
1897. | 2027.
1806.
2205.
1813.
2000. | NET COM-
MEPCIAL
ACPES | 253. | 682.
668.
745.
702. | 816.
799.
975.
895.
1135. | 1243.
1047.
1385.
1106.
1471. |
| | FMPLOY- | 4157. | 10276.
9213.
12059.
10438. | 13432.
12524.
16686.
14852.
19740. | 27119.
18099.
24940.
19463.
25871. | NET RES-
IDENTIAL
ACRES | 1440. | 2568.
2530.
2883.
2796. | 3068.
3350.
3177.
3525. | 3599.
3142.
3757.
3141.
3835. |
| | TOT AL | 5509.
8293. | 9682.
9504.
11101.
10606. | 12304.
11565.
13515.
12397.
14683. | 16235.
13812.
17180.
13807.
17551. | · USED. | 1789. | 3504.
3420.
3920.
3757. | 4106.
4054.
4691.
4426.
5064. | 5292.
4616.
5632.
4705.
5808. |
| WAPE ARABIIGH | POPULA-
TION | 18819. | 32534.
31915.
36075.
34490. | 39926.
37560.
43799.
40224.
46069. | \$2093.
\$2093.
\$1972.
\$3505. | VACANT
(AVATL)
ACRES | 10117. | 8170.
8269.
7674. | 7344.
7512.
6756.
7070.
6312.
5759. | 6041.
6827.
5637.
6720.
5429. |
| loga Is | | 1940 | 1980 HICH
1980 HICH
1990 HICH
1990 LOW | 2000 UTGH
2003 LTW
2010 HTGH
2020 LTW
2020 HTGH
2020 LTW | 2030 HIGH
2030 FW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 I CW | 2000 HIGH
2010 LM
2010 HIGH
2020 HIGH
2020 LM | 2037 HIGH
2040 HIGH
2040 HIGH
2057 HIGH
2057 LCW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | L 7. | Upper | | | VERY WET | INDUST./ | COMMER- |
|--|-------------|-------------------------|------------------------------------|----------------------------|------------------------------|-------------|-------------------|
| HOLDS - EMPLOY - INCOME MENT - HH'S IN | THIS THIS | MIDDLE
INC HH'S | E E | ¥ ¥ | MANUF . G
EMPLINY MT | NON-MFG. | CIAL
FMPL NYWT |
| 6748. 1940. 849. 275. 74
15223. 4095. 1635. 374. 17 | 745. | 496. | 424. 67.
767. 102. | 0 | •• | 141. | 639. |
| 7024. 1587. 327. 20 | 2684. | 25 | 1 | . 87. | • | 200. | 1200. |
| 7. 6780. 1576. 324. | 2603 | | 8. | 100. | • | 200. | 1200. |
| 29560. 9211. 2407. 465. | 3124 | 2881. | 1742. 19 | .6 | • | 482. | 1627. |
| 3393. 697. 3 | 3851. | 3434. | 2091. 260. | | • | 693. | 2440. |
| 7. 9338. 1290. 635. | 3570 | | . 9 | | .0 | 758. | 2317. |
| 11309. 5106. 888. | 4364. | 37 | 36 | • | • | 1100. | 3700. |
| 36844. 10235. 4531. 795. | 3948 | 3410. | 2690 263 | 262. 0. | | 1403 | 5020 |
| 1. 10980. 5781. 938. | 4274 | | | | | 1476. | 3989 |
| 8881. 1248. | 5180. | 4023. | 72 | | • | 1833. | 6321. |
| 14067. 6918. 1092. | 4383 | | 2723 800 | 439. | | 2219- | 7785. |
| 7. 11267. 7990. 1100. | 4508 | 3464. | 4. | 499. | • | 2148. | 5342 |
| 15242. 11941. 1499. 62
11560. 9168. 1092. | 4588 | ** | . 26 | .4. 10.
358. 1. | | 2547. | 6406. |
| VACANT (AVAIL) *USED* IDENTIAL MERCIAL MANUE'G ACRES ACRES ACRES | ND/
F. G | NET IND/ E
NON-MEG I | EXTENSIV EXTENSIVINDUST.L INSTITUT | TV STREETS/
UT HIGHWAYS | RESTATCT
OPEN
SPACE AC | TOTAL ACRES | CRES |
| 11243. 1769. 1467. 225. | 8 = | .69 | 217. | 49. 525. | 4450. | 18253 | 53. |
| .0000 | : : | • 011 | | | *624 | Exest. | 2554 |
| | • | 3. 98. | 7. | .6 | 4521. | 2000 | |
| 5212. 5604. 46 | 19. | 120. | | 10 | 4583. | | |
| 6377. 6030. 5445. 451. | - | 117. | 217. | 49. 1007. | . 4572. | STATE OF | . 1882 |
| 5665. 6631. 5981. 505. | 13. | 131. | 217. | 49. 1075. | 4617. | | |
| 7159. 6397. 58 | 14. | 158. | | | 4654. | | |
| 0. 6844. 6119. | - | . 163. | 7. | . 6 | 4633. | 177.14 | |
| 4597. 720. 6513. 608. | • | 5. 183. | 217. | 49. 1133. | . 4650. | | |
| 4758. 7358. 6371. 764. | 27. | 207. | 217. | 49. 1182. | 4678. | | ANA LURA |
| 8. 6469. 5591. | 19 | | 7. | | 4650 | Total Land | |
| 7750. 6627. R6 | 29. | 23 | | 12 | 4701. | | |
| 5636. 6588. 5641. 698. | 200 | 258. | 217. | 49. 1108. | 4655. | | |
| 2. 6743. 5714. | - | | | | | | |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| | COMMER-
CIAL
EMPLOYMT | 1330. | 1924.
1869.
2373.
2085. | 3000.
2700.
3700.
4500.
4000. | 5624.
4562.
6989.
5230.
7989. | ACR ES | 3424. | | | |
|------------|----------------------------------|------------|--|---|---|--------------------------------|--------------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 55.
56. | 255.
210.
507.
423. | 684.
715.
1029.
1289.
1321. | 1658.
1657.
2019.
1960.
2332. | TOTAL A | 34. | | | |
| | VERY WET MANUF G | •• | | | | PESTRICT
OPFN
SPACE AC | 468. | 472.
471.
476. | 478.
476.
477.
481. | 481.
477.
481.
481. |
| | MANUF .G | 963. | 186.
161.
183.
153. | 184.
148.
169.
127.
140. | 124.
110.
71. | STREETS/
HIGHWAYS
ACRES | 194. | 230.
225.
252.
241. | 268.
288.
272.
304. | 320.
286.
342.
342.
360. |
| | ** OPY *** MANUF *G | 4180. | 2651.
1399.
2774.
1475. | 2770.
1485.
2797.
1514.
2841.
1561. | 2923.
1639.
2947.
1662.
2746. | EXTENSIV
I NSTITUT
ACRES | 66 | | | |
| | HTGH
INCOME
HH'S | 303. | 486.
475.
583.
557. | 654.
715.
653.
772. | 948.
717.
885.
721.
963. | EXTENSIV
INDUST'L
ACRES | 115. | 115.
115.
115.
115. | 115.
115.
115.
115. | 115.
115.
115.
1.5.
115. |
| | UPPER
MIDDLE
INC HH'S | 601. | 805.
795.
825.
802. | 816.
781.
808.
760.
772. | 634.
475.
518.
380.
415. | NET IND/
NON-MEG
ACRES | | 19.
16.
35. | 47.
70.
72.
87. | 112.
1136.
136.
157.
150. |
| | LOWER
MIDDLE
INC HH'S | 1157. | 1668.
1645.
1795.
1722. | 1884.
1774.
1969.
1818.
2037. | 2001.
1683.
2025.
1569.
2051. | MET TND/
MANUF'G
ACRES | 12. | 19.
11.
21. | 21.
12.
21.
12.
22. | 23.
23.
12.
21.
21. |
| | INCOME | 359. | 337.
334.
425.
399. | 504.
468.
581.
528.
656. | 721.
639.
751.
637.
636. | NET COM-
MERCIAL
ACRES | 101. | 145.
141.
175.
155. | 216.
196.
263.
236.
316. | 391.
482.
365.
549. |
| | FOTAL
EMPLOY-
MENT | 3120. | 5016.
3639.
5837.
4135. | 6638.
5048.
7694.
8770.
6976. | 1032 9.
7858.
12065.
8852.
13139. | NET RES-
IDENTIAL
ACRES | 571. | 799.
787.
913.
874. | 957.
903.
1016.
938.
1036. | 992,
833.
986.
784. |
| | TOTAL
HOUSE-
HOLDS | 2420. | 3296.
3249.
3628.
3481. | 3858.
3637.
4074.
3758.
4237. | 4205.
3514.
4180.
3307.
4223. | .USED.
ACRES | 589.
884. | 982.
954.
1144.
1071. | 1242.
1160.
1370.
1258.
1461. | 1519.
1277.
1627.
1293.
1721. |
| ARO | POPULA-
TIN | 7695. | 10548.
10396.
11610.
11138. | 12344.
11639.
13035.
12026.
13560. | 13456.
11246.
13376.
10583.
13514. | VACANT
(AVATL)
ACRES | 1958. | 1626.
1658.
1436.
1523. | 1322.
1417.
1171.
1302.
1062. | 991.
1269.
859.
1245.
746. |
| 53 MAYNARD | | 1950 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LTW
2010 HIGH
2010 LTW
2020 HIGH
2020 LTW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LUW
1990 HIGH
1990 LUW | 2000 HTGH
2000 LTW
2010 HTGH
2010 LCW
2020 LGW
2020 LGW | 2030 416H
2030 LNW
2040 H16H
2050 H16H
2050 H16H |

METONDOLITAN DISTRICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | CIAL
CIAL
EMPLOYNT | 358.
671. | 1518.
1429.
2200.
2200. | 3132.
3454.
4552.
4326.
6664. | 7938.
6473.
9649.
7387.
10665. | ACRES | 9293. | | | |
|-------------|-----------------------------------|----------------|-------------------------------------|---|---|-----------------------------------|-------|---|--|--|
| | INDUST./
NON-MFG.
EMPL NYMT | 178. | 676.
557.
1257.
1069. | 1523.
1557.
1966.
2029.
2435.
2545. | 2867.
2940.
3330.
3356.
3655. | TOTAL A | 92 | | | |
| | MANUE 6 | | | | | PESTRICT
OPEN
SPACE AC | 1664. | 1685.
1684.
1754. | 1783.
1773.
1822.
1852.
1852. | 1853.
1873.
1875.
1898.
1898. |
| | MANISE S
EMPLOYMT | .71 | | 3 2 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | . ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | STREFTS/ R
HIGHWAYS
ACPES S | 259. | 433.
426.
531.
516. | 590.
571.
647.
623.
714. | 740.
671.
789.
695.
830. |
| | MANIF G | 125. | 862.
530.
1400.
816. | 1396.
1417.
849.
1471. | 1535.
960.
1574.
991.
1423. | EXTENSIV SINSTITUT H | ••• | •••• | | |
| | HTGH
INCOME
HH'S | 358. | 1108.
1091.
1402.
1335. | 1640.
1532.
1859.
1673.
2079. | 2281.
1886.
2455.
1959.
2797. | INPUST.L ACRES | 184. | 184.
184.
194.
184. | 194.
184.
184.
184. | 184.
184.
184.
184.
184. |
| | MIDDLE HH'S | 399. | 1097.
1070.
1467. | 1826.
2164.
1917.
2508. | 2781.
2373.
3026.
2399.
3275. | NET IND/
NON-MFG
ACRES | .:1 | 46.
35.
99.
82. | 123.
126.
163.
206.
216. | 245.
252.
287.
290.
317. |
| | L TWFR
MI TOLE
INC HHIS | 398. | 744.
724.
1058. | 1363.
1240.
1678.
1479.
2021. | 2424.
2015.
2813.
2119.
3200. | MANUE G
ACPES | 2. | 15.
25. | 25.
25.
26.
26. | 27.
28.
17.
25. |
| | NCOME
HH'S | 96. | 233.
223.
353. | 441.
525.
469.
638. | 751.
658.
856.
664.
658. | MERCIAL
ACPES | 97. | 231.
283.
283. | 345.
440.
425.
581. | 666.
568.
780.
629.
847. |
| | TOTAL
EMPLOY- | 553. | 3056.
2508.
4857.
4085. | 6057.
5840.
7939.
7204.
10572. | 12343.
10373.
14553.
11735.
15743. | NET RES-
INFWTIAL
ACP ES | 790. | 2020.
1989.
2782.
2687. | 3100.
2978.
3537.
3339.
3877. | 3983.
3332.
4111.
3384.
4370. |
| | HOUSE-
HOLDS | 1251. | 3182.
3099.
4279. | 5270.
4841.
6226.
5538.
7247. | 8237.
6937.
9149.
7141.
10224. | • USED • | 894. | 2318.
2265.
3189.
3765. | 3593.
3485.
4165.
3946.
4689. | 4820.
4169.
5205.
4320.
5568. |
| EID | PTOTAL
PTOULA-
TION | 6021.
9821. | 12904.
12679.
16739. | 20472.
18917.
23942.
21393.
26994. | 32559.
25861.
32927.
25898.
36689. | VACANT
(AVAIL)
ACRES | 6292. | 4572.
4734.
3636.
3781. | 3153.
3280.
2475.
2734.
1853. | 1696.
2439.
1241.
2258.
813. |
| S4 venerein | | 1960 | 1080 HICH
1080 HICH
1000 HICH | 2000 4164
2000 10W
2010 4764
2010 10W
2020 4164 | 2030 HICH
2040 HICH
2040 LOW
2050 HICH
2050 HICH
2050 I CM | | 1960 | 1980 HIGH
1980 LOW
1980 LOW
1980 LOW | 2000 HICH
2003 LCW
2010 HIGH
2020 HICH
2020 HICH
2020 LCW | 2030 HIGH
2030 LTW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMER-
CTAL
T EMPLOYMT | . 6004. | 68. 5866.
5500.
58. 5500. | 50. 5000.
50. 6600.
3950. 4600.
3950. 4200.
3800. 4200. | 3684. 4200.
3684. 4200.
05. 4200.
3667. 4200.
770. 4200.
3625. 4350. | TOTAL ACRES | 5606. | | | |
|----------|-------------------------------|----------------------|---|---|---|--------------------------------|-------|--|---|--|
| | G NON-MEG. | 0. 2856.
0. 3364. | 0. 5376.
0. 4468.
0. 4972.
0. 4358. | 0. 4550.
0. 4150.
0. 3800.
0. 3800. | 0. 3654.
0. 3605.
0. 3470.
0. 3470. | | | 129.
1828.
132.
1829. | 32.
1829.
132.
1829.
332. | 332.
1829.
1829.
1829.
332. |
| | VERY WET MANUF'G | | | | | OPEN
COPEN
SPACE AC | 1826. | | 7. 18
5. 18 | |
| | MANUF G | 1319. | 313.
245.
355. | 3 | | STREETS/
HIGHWAYS
ACRES | 915. | 2. 96
2. 96 | 2. 937.
2. 941.
2. 926.
2. 926. | 2. 91 82 83 |
| | MANUE . G
EMPLOYMT | 1071. | 2225.
1 1866.
2000. | 1800.
1800.
1650.
1500. | 1025.
1025.
692.
1025.
1025.
1025. | EXTENS IV
INSTITUT
ACRES | 2. | | | |
| | INCOME
HH*S | 3543. | 3199.
3170.
3025. | 2763.
2533.
2553.
2259. | . 1600.
1600.
1500.
1500. | EXTENSIV
INDUSTIL
ACPES | 6.0 | .07 . | .01.01 | .07
.07
.07
.07
.07 |
| | HIDDLE
INC HH'S | 4917.
5235. | 4981.
4935,
4644.
4574 | 4154.
4120.
3705.
3774.
3189. | 2400.
2200.
2200.
1800.
2000. | NET IND! | 124. | 280.
220.
259. | 237.
204.
216.
194.
198. | 191.
181.
188.
180.
181. |
| | LOWER WIDDLE | 7867.
8812. | 9540.
9405.
10311. | 10792.
10275.
11146.
10669.
11415. | 11900.
10070.
12200.
12500.
12500. | MET IND/
MANUF'S
ACRES | 51. | 54.5 | 46.
43.
41.
39. | 29.
22.
18. |
| | INCOME | 2100. | 3031.
2973.
3520. | 3753.
3512.
3904.
3608.
3961. | 4000.
3600.
4100.
3600.
4200. | WET COM- | 211. | 217.
206.
193. | 176.
176.
162.
148. | 148.
148.
148.
148. |
| | EMPL TY- | 11250. | 14075.
12445.
12827.
12155. | 11711.
11249.
10757.
10489.
9832. | 9226.
9073.
8851.
8710.
8532.
8585. | NET RES- | 1733. | 1965.
1936.
2033.
1970. | 1986.
1908.
1956.
1868. | 1853.
1587.
1859.
1460.
1866. |
| | HO JS E-
HOL 7S | 18427. | 20483.
20483.
21500.
20836. | 21462.
20638.
21287.
20401.
20824.
19944. | 20000.
17470.
20103.
17370.
20200.
!\$907. | ACRES | 2119. | 2516.
2407.
2536. | 2445.
2333.
2377.
2264.
2273. | 2220.
1942.
2218.
1806.
2213.
1665. |
| MEDECIAN | POPULA-
TION | 64409. | 68475.
\$7523.
68725. | 68505.
66053.
68066.
65317.
66630. | 64075.
56232.
64385.
55705.
64695. | VACANT
(AVAIL)
ACRES | 675. | 222.
351.
201.
328. | 306.
436.
385.
515.
503. | 563.
876.
567.
1027.
573. |
| 55 MEN | | 1960 | 1980 HIGH
1980 I CW
1990 HIGH
1990 L | 2000 HIGH
2010 LCW
2010 HIGH
2020 HIGH
2020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMER-
CIAL
EMPLOYMT | 388. | 1459.
1370.
2438.
0. 1960. | 3. 3400.
5400.
3. 4900.
7000. | 8311.
9. 6642.
10092.
3. 7481.
11961. | ACPES | 7462. | | | |
|-----------------------------------|--------------|-------------------------------------|---|--|-------------------------------|----------------|--|---|---|
| INDUST./
NON-MFG.
EMPL OYMT | 37. | 590.
486.
982.
850. | 1292.
1363.
2041.
2118.
2397. | 2814.
2848
3266.
3208
3823.
3691 | TOTAL ACPE | | | | |
| VERY WET
MANUE & G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 487. | 494.
493.
518. | 537.
547.
567.
586.
587. | 590.
571.
635.
635. |
| MANUE .G | 129. | 123.
106.
158.
130. | 163.
131.
162.
130.
157. | 158.
82.
150.
38. | STREETS/
HIGHWAYS
ACRES | 214. | 300.
296.
346. | 389.
453.
499.
469 | 526.
471.
573.
491.
627. |
| MANUF'S
MPLOYMT | 134. | 100.
100.
214.
165. | 209.
179.
626.
223.
671. | 758.
351.
824.
398.
578. | INSTITUT
ACRES | •• | | | |
| HIGH
INCOME
HH'S | 213. | 450.
437.
620.
585. | 784.
721.
956.
831.
1133. | 1395.
1105.
1551.
1171.
1885. | EXTENSIV INDUST .L. ACRES | 214. | 214.
214.
214. | 214.
214.
214.
214.
214. | 214.
214.
214.
214.
214. |
| UPPER
MINDLE
INC HH'S | 390. | 684.
673.
815. | 980.
906.
1172.
1370.
1370. | 1570.
1320.
1719.
1334.
1382. | NET IND! ENDING NON-WEG 1 | 14. | 96.
122.
114. | 143.
148.
193.
217. | 245.
247.
275.
771.
312. |
| LOWER MI DOLE | 647. | 1131.
1113.
1312. | 1494.
1395.
1704.
1543.
1928. | 2157.
1815.
2415.
1872.
2695. | MANUF G
ACRES | 13. | 10.
15.
12. | 15.
26.
14.
28. | 30.
16.
32.
17.
22. |
| ACT HH | 208.
183. | 239.
233.
321. | 408.
375.
514.
461.
612. | 702.
619.
777.
623.
968. | MERCIAL
ACRES | 52. | 145.
139.
210.
178. | 301.
274.
407.
374.
514. | 601.
490.
770.
546.
945. |
| TOTAL
EMPLOY- | 688. | 2271.
2062.
3792.
3105. | 5464.
8229.
7371.
10225. | 12051.
9923.
14332.
11125.
16467. | NET RES- | 763. | 1272.
125°.
1539.
1495. | 1751.
1689.
2083.
1961.
2307. | 2347.
2001.
2550.
2048.
2853. |
| TOT AL
HOLISE | 1459. | 2503.
2456.
3068. | 3667.
3396.
4346.
3875.
5043. | 5825.
4859.
6461.
4999.
7343. | V300V | 845. | 1524.
1497.
1886.
1799. | 2710.
2710.
2710.
2548.
3065. | 3723.
2754.
3586.
2881.
4032. |
| TOTAL
POPHLA-
TION | 5168. | 9313.
9135.
11092.
10511. | 13249.
12275
15695.
13998.
17599. | 20435.
17356.
27664.
17547.
25750. | VACANT
(AVATL)
ACRES | 5732.
5295. | 491.
4962.
4498.
4602. | 4112.
4215.
3518.
3711.
3097. | 2479.
2479.
3300.
1953.
2956. |
| A870.37 95 | 1940 | 1980 HICH
1900 HIGH
1900 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH | | 1940 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HICH
2000 LOW
2010 HIGH
2010 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METRAPOLITAN DISTRICT COMMISSION—WASTEMATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CTAL
EMPLOYMT | 2347. | 3012.
2889.
2638.
2300. | 2550.
2250.
2450.
2200.
2400. | 2279.
2269.
2495.
2478.
2504. | ACRES | 2. | | 7 | 100 mm m |
|------------|---------------------------------------|----------------|--|---|---|-------------------------------|-------|--|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT E | 533. | 954.
791.
1029. | 1018.
1010.
1053.
1038. | 1071.
1079.
1215.
1277.
1288. | TOTAL AC | 3072 | | 1216 22 | |
| * 1 | VERY WET I
MANUF'G N
EMPLOYMT E | •• | | | | RESTRICT
OPEN
SPACE AC | 625. | 632.
631.
633. | 634.
634.
635.
635.
636. | 636.
637.
635.
635. |
| | MANUF'S | 105. | 87.
76.
103. | 112.
107.
87.
97. | 101.
104.
113. | STPEETS/ PHIGHWAYS ACRES S | 386. | 434.
427.
435. | 428.
430.
432.
432.
433. | 419.
426.
399.
431. |
| | *DRY *
MANUF G
EMPLOYMT * | 2838.
1627. | 1250.
741.
1000.
1000. | 550.
280.
280.
140. | 91.
0.
0. | EXTENSIV
INSTITUT
ACRES | |
 | | |
| | HIGH
INCOME
HH'S | 2214. | 2539.
2504.
2494.
2439. | 2142.
2454.
2162.
2497.
2249. | 1827.
1876.
2017.
1895.
2358. | EXTENSIV
INDUST*L
ACRES | 41. | 41:
41:
41: | 41.
41.
41.
41. | 41.
41.
41.
41. |
| | UPPER
MIDDLE
INC HH'S | 2542. | 3170.
3118.
3253.
3158. | 3226.
3242.
3305.
3378.
3132. | 3178.
2478.
3190.
2280.
3200. | NET IND/
NON-MFG | | 35.
24.
38.
33. | 38.
40.
40.
39. | 53.
53.
57. |
| | LOWER
MIDDLF
INC HH'S | 3011. | 4262.
4190.
4682.
4501. | 4987.
4800.
5329.
5643.
5168. | 5782.
4919.
6033.
4947.
6285. | NET IND/
MANUF G
ACRES | 43. | 20.
12.
16. | 10.
10.
6.
3. | 3.
2.
2.0.
2.0. |
| | LOW | 946. | 1127.
1108.
1288.
1226. | 1393.
1310.
1477.
1375.
1561. | 1616.
1408.
1687.
1410.
1755. | NET COM-
MERCIAL
ACRES | 101. | 129.
124.
113. | 109.
97.
105.
103. | 98.
112.
111.
113. |
| | TOTAL
EMPLOY- | 5874. | 5403.
4497.
4770.
4317. | 4230.
3906.
3890.
3643. | 3541.
3439.
3814.
3758.
3905. | NET RES-
IDENTIAL
ACRES | 1384. | 1762.
1741.
1792.
1769. | 1745.
1798.
1797.
1814.
1628. | 1684.
1491.
1710.
1771.
1744. |
| | TOTAL
HOUSE-
HOLNS | 9929. | 11097.
10920.
11718.
11325. | 11749.
11804.
12273.
12271.
12830. | 12403.
10680.
12927.
10531.
13599. | ·USED. | 1536. | 1946.
1902.
1950.
1917. | 1902.
1943.
1948.
1952.
1959. | 1827.
1636.
1876.
1916.
1916. |
| OSE | POPULA-
TION | 29619. | 37057.
36471.
37932.
36674. | 38031.
38209.
39710.
39703.
40208. | 38886.
33543.
40508.
33082.
42591. | VACANT
(AVATL)
ACPES | 481. | 16.
69.
0.
52. | 65.
21.
13.
0. | 146.
361.
98.
353.
43. |
| 57 MFLROSE | | 1960 | 1980 HIGH
1990 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LNW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LIN
2040 HIGH
2050 HIGH
2050 LIN | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTCH
2040 HTGH
2040 HTGH
2050 HTCH
2050 LOW
2050 LOW |

METROPOLITAN DISTPICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRE ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLIYMT | 487. | 802.
783.
919.
832. | 1370.
1415.
2223.
1947.
3318.
2701. | 4656.
3412.
6567.
4488.
8137. | CPES | 9254. | 2,000 °
3,4,00°
15,4,00°
5,6,00° | 10000 A 10000 | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|--------------|----------------------------------|---------------|--|---|---|--------------------------------|---------|--|---|--|
| | INDUST./
WON-MFG.
EMPLOYMT | 102. | 301.
250.
355.
313. | 495.
542.
774.
1042.
1104. | 1507.
1516.
2050.
1994.
2567. | TOTAL ACPES | 04.0 92 | 19.45
2.10.4
1.0.16
1.0.18 | | 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | VERY WET MANUE G | •• | | | | PESTRICT
OPEN
SPACE AC | 1746. | 1757.
1756.
1778. | 1794.
1790.
1812.
1804.
1826. | 1835.
1816.
1852.
1877.
1834. |
| | MANUE S | 169. | 303.
236.
269. | 216.
158.
143.
72. | | STP FETS/
HIGHWAYS
ACRES | 386. | 549.
534.
575. | 599.
581.
629.
604.
660. | 688.
636.
732.
657. |
| | ORY.
MANIJE 1G
EMPLOYMT | 45. | 536.
339.
826.
509. | 816.
535.
985.
985. | 1245.
922.
1387.
1037.
1112.
869. | EXTENSIV
INSTITUT
ACRES | | | | |
| | HIGH
INCOME
HH'S | 132. | 269.
259.
406.
381. | 544.
498.
690.
595.
854. | 1150.
1345.
991.
1750. | EXTENSIV
INDUST L
ACRES | 290. | 290.
290.
290.
290. | 290.
290.
290.
290.
290. | 290.
290.
290.
290.
290. |
| | M TOOL F | 253. | 245.
243.
275.
265. | 328.
306.
401.
357.
497. | 655.
539.
797.
555.
966. | NET IND!
NON-MFG
ACRES | 39. | 67.
66.
68. | 71.
72.
77.
82.
83. | 91.
92.
102.
101.
113. |
| | LOWER MINDLE | 378. | 544.
536.
621.
588. | 698.
648.
788.
710.
893. | 1024.
846.
1184.
885.
1357. | MET IND/
MANUF'S
ACRES | 30. | 85.
78.
93.
82. | 87.
87.
80.
88. | 93.
86.
97.
18. |
| | INCOME | 107. | 185.
178.
262.
238. | 340.
424.
375.
517. | 636.
541.
728.
547.
802. | MERCTAL
MERCTAL
ACRES | 1428. | 2351.
2296.
2359.
2299. | 2389.
2446.
2446.
2374.
2519. | 2608.
2736.
2736.
2543.
2840. |
| | FUD AL | 803. | 1941.
1608.
2369.
1857. | 2898.
2650.
4025.
3474.
5416. | 7408.
5850.
10004.
7519.
11816. | VET PES-
IDENTIAL
ACRES | 686. | 1085.
1063.
1311.
1263. | 1496.
1436.
1689.
1593.
1853. | 1944.
1686.
2140.
1737.
2414. |
| | 10154
4005-
401 35 | 870.
1022. | 1243.
1216.
1567.
1473. | 1909.
1760.
2333.
2760.
2318. | 3466.
2825.
4054.
2978.
4875. | · USED. | 2182. | 3590.
3503.
3831.
3712. | 4044.
3926.
4299.
4125.
4542. | 4737.
4335.
5075.
4471.
5445. |
| LETON | POPULA-
TION | 3718. | 4735.
4639.
5888.
5563. | 7134.
6596.
8323.
7391.
9921. | 12391.
10147.
14044.
10384.
16935. | VACANT
(AVATL)
ACRES | 4549. | 3968.
3170.
2780.
2922. | 2526.
2224.
2431.
1936.
2210. | 2177.
1335.
2016.
870. |
| S8 MIDDLETON | | 1940 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 HIGH
2010 HIGH
2020 LCM | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LCW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2037 I TW
2040 HIGH
2040 I TW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1812.
2702. | 2399.
2318.
2383.
2215. | 3678.
3989.
5610.
5237.
7854. | 8922.
7294.
10425.
7875.
11429. | ACPES | 9594. | 10000 | | |
|------------|----------------------------------|----------------|---|---|--|--------------------------------|-------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 638. | 437.
363.
504.
453. | 927.
1161.
1561.
1836.
2086. | 2463.
2700.
2864.
2981.
3192. | TOTAL A | \$6 | | | |
| | VERY WET MANUF G | ••• | | | | PESTRICT
OPEN
SPACE AC | 621. | 627.
626.
633.
630. | 638.
645.
645.
649. | 649.
642.
652.
642.
656. |
| | MANJF'G | 163. | 236.
205.
323.
270. | 331.
272.
328.
268.
320. | 326.
171.
327.
127.
330. | STREETS/
HIGHWAYS
ACPES | 491. | 729.
723.
746. | 781.
776.
907.
889.
953. | 973.
925.
1005.
935.
1030. |
| | *ORY*
MANIF*G
EMPLOYMT | 1975. | 1565.
1352.
1372.
1169. | 1364.
1191.
1409.
1242.
1487. | 1602.
1406.
1657.
1513.
1317. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH*S | 602. | 867.
850.
965. | 1065.
1005.
1174.
1068.
1284. | 1453.
1213.
1524.
1222.
1683. | EXTENSIV:
INDIST'L
ACRES | 195. | 195.
195.
195.
195. | 195.
195.
195.
195. | 195.
195.
195.
195. |
| | MIDDLE
MIDDLE
INC HH'S | 1133. | 1707.
1687.
1727.
1682. | 1801.
1719.
1911.
1776.
2026. | 2117.
1841.
2172.
1708.
2238. | NET IND/
NON-MEG
ACRES | 130. | 68.
63.
72. | 100.
116.
142.
161.
177. | 203.
218.
229.
237.
251. |
| | LOWER
MIDDLE
INC HH'S | 2330. | 3247.
3199.
3544.
3408. | 3815.
3610.
4111.
3803.
4402. | 4685.
4114.
4961.
4149.
5258. | NET IND/
MANUF' 6
ACPES | 53. | 44.
38.
42. | 42.
43.
37.
44. | 47.
39.
45.
36. |
| | LOW | 731. | 1041.
1030.
1077. | 1164.
1117.
1271.
1197.
1387. | 1453.
1266.
1509.
1267.
1563. | NET COM-
MFRCIAL
ACP ES | 155. | 205.
198.
203.
189. | 290.
307.
419.
391.
568. | 639.
740.
566.
806. |
| | TOTAL
EMPLOY-
MENT | 4588. | 4637.
4239.
4583.
4107. | 6301.
6613.
8908.
8583.
11748. | 13313.
11571.
15283.
12432.
16465. | NET PES-
IDENTIAL
ACRES | 1087. | 1600.
1576.
1747.
1679. | 1866.
1779.
2050.
1916.
2150. | 2152.
1882.
2228.
1862.
2324. |
| | TOTAL
HOUSE-
HOLPS | 6370. | 6862.
6766.
7313. | 7845.
7452.
8466.
7843.
9099. | 9707.
8434.
10166.
8246.
10741.
8194. | · USED • | 1424. | 1916.
1874.
2064.
1972. | 2297.
2238.
2653.
2504.
2940. | 3041.
2667.
3246.
2705.
3427.
2743. |
| - UBU | TOTAL
POPULA-
TION | 15749. | 20812.
20526.
22165.
21427. | 23761.
22582.
25625.
23756.
27524.
24758. | 29343.
25529.
30724.
25265.
32450.
24809. | VACANT
(AVATL)
ACRES | 6863. | 5126.
6175.
5956.
6063. | 5683.
5750.
5194.
5366.
4956. | 4736.
5164.
4496.
5116.
4286.
5066. |
| SO MILENRO | | 1940 | 1980 HIGH
1980 1 NW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LPW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LÜW
1900 HIGH
1990 LÜW | 2000 HIGH
2000 LOW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METCALF AND EDDY INC BOSTON MASS
WASTEWATER ENGINEERING AND MANAGEMENT PLAN FOR BOSTON HARBOR-EA--ETC(U)
OCT 75 AD-A036 793 UNCLASSIFIED NL 30F44 2836793

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 193. | 800.
800.
1600. | 2800.
2700.
4300.
4000.
5500. | 6149.
9133.
7050.
10323. | ACRES | 7846. | | | 18
18
10
10
10 |
|---------|-----------------------------------|--------------|-------------------------------------|--|--|--------------------------------|--------------|--|--|--|
| | INDUST./
NON-MFG.
EMPL NYMT | 988. | 547.
449.
800. | 1082.
1282.
1645.
1840.
2092.
2308. | 2539.
2704.
3019.
3103.
3409. | TOTAL ACRES | 2 | | | |
| | VERY WET MANUF G | ••• | | | | RESTRICT
OPEN
SPACE AC | 1177. | 1187.
1186.
1229.
1226. | 1259.
1253.
1299.
1285.
1321. | 1324.
1345.
1345.
1307.
1370. |
| | MANUE .S | 204. | 461.
400.
575.
481. | 590.
486.
586.
480.
577. | 578.
310.
530.
201.
433. | STREETS/
HIGHWAYS
ACRES | 231. | 287.
282.
348.
341. | 401.
468.
450.
519. | 594.
594.
511.
638. |
| | * DRY *
MANUF * G
EMPLOYMT | 514. | | | 35.
31.
51.
200.
200. | EXTENSIV
INSTITUT
ACRES | 16. | 16.
16.
16. | 16.
16.
16.
16. | 16.
16.
16.
16. |
| | HIGH
INCOME
HH'S | 176. | 532.
512.
844. | 1123.
1021.
1379.
1190.
1634. | 1942.
1531.
2135.
1606.
2526. | EXTENSIV
INDUST'L.
ACRES | 81. | 81.
81.
81. | 81.
81.
81.
81. | 81.
81.
81.
81. |
| | UPPER
MIDDLE
INC HH'S | 351.
516. | 717.
698.
1062.
986. | 1419.
1277.
1757.
1522.
2098. | 2404.
2001.
2659.
2027.
2927. | NET IND/
NON-WFG
ACRES | 12. | 60.
60. | 79.
116.
129.
146. | 176.
187.
208.
233.
234. |
| | LOWER
MIDDLE
INC HH'S | 530. | 708.
693.
972. | 1240.
1127.
1521.
1337.
1830. | 2184.
1782.
2549.
1872.
2922.
1930. | MET IND!
MANUF'S
ACRES | 92. | 59.
51.
62.
54. | 62.
54.
62.
62. | 63.
60.
31.
61. |
| | LOW
INCOME
HH'S | 123. | 137.
135.
198.
181. | 268.
246.
348.
312.
449. | 571.
491.
672.
498.
778. | NET COM-
MERCIAL
ACRES | .00 | 94.
148.
148. | 228.
221.
328.
308.
441. | 530.
451.
650.
511.
729. |
| | EMPL TY- | 1049. | 1808.
1650.
2974.
2881. | 4473.
4469.
6531.
6320.
8678. | 10493.
9194.
12733.
10406.
1434. | VET BEST | 560.
718. | 963.
950.
1432.
1385. | 1764.
1689.
2204.
2048.
2457. | 2072.
2072.
2715.
2127.
2999. |
| | TOTAL
HOUSE-
HOLDS | 1180. | 2095.
2039.
3076.
2855. | 4050.
3671.
5005.
4361.
6011. | 7102.
5806.
8015.
6092.
9153. | *USED * | 704. | 1159.
1132.
1702.
1646. | 2133.
2056.
2710.
2538.
3101. | 3256.
2747.
3632.
2877.
4022. |
| S | TOTAL
Proula-
TION | 4374. | 7609.
7408.
111141.
10347. | 14646.
13284.
17585.
15332.
21106. | 24924.
20387.
28119.
21076.
32133. | VACANT
(AVATL)
ACOFS | 5637. | 5116.
5148.
4470.
4536. | 3955.
4047.
3272.
3475.
2807.
3088. | 2623.
3208.
2178.
3054.
1719. |
| STITLES | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HTGH
2030 LM
2040 HTGH
2050 LCM
2050 HTGH | | 1960
1970 | 1980 HTCH
1980 LOW
1990 HTCH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LCM
2010 LCM
2010 HIGH | 2030 HIGH
2031 CR
2040 HIGH
2040 LIW
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 795. | 977.
932.
833.
726. | 642.
673.
1090.
514.
847. | 1550.
1683.
1877.
1175. | CRES | 422. | | | |
|------------|----------------------------------|--------------|------------------------------------|--|---|--------------------------------|-------|------------------------------------|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 250. | 539.
448.
523.
471. | 445.
492.
615.
369.
489. | 736.
433.
790.
485.
774. | TOTAL ACPES | 47.50 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 24. | 23.
24.
24. | 24.
27.
27.
27. | 27.
28.
28.
28. |
| | MANUF'G | 97. | 120.
103.
130. | 389.
337.
384.
233.
314. | 313.
134.
269.
87.
175. | STREETS/
HIGHWAYS
ACRES | 59. | 57.
55.
57. | 58.
58.
47. | 61.
63.
51.
64. |
| | MANUF'G | 22. | | | 200. | EXTENSIV
INSTITUT
ACR ES | :: | | | |
| | HIGH
INCOME
HH'S | 739. | 574.
574.
716. | 644.
883.
846.
848.
816. | 600.
1037.
600.
600.
600. | EXTENSIV
INDUST*L
ACRES | | ئ ^ئ ئ ^ئ | ; ¹ ; ¹ ; ¹ | _ ² _2 ² _2 ² |
| | UPPER
MIDDLE
INC HH'S | 337. | 399.
399.
425.
418. | 367.
452.
383.
419.
340. | 304.
422.
318.
400.
400. | NET IND/
NON-MFG
ACRES | 10. | 14.
8.
13. | 11.
18.
14.
16. | 31.
34.
17.
33.
25. |
| | LOWER MI DOLE | 327. | 437.
437.
357.
373. | 281.
257.
258.
258.
215. | 200.
250.
250.
300. | MET TND/
MANUF G
ACRES | 5. | | 14. 14. 11. 5. | 11.3.10.2.10.5. |
| | I NC UNE
HH 'S | 133. | 120.
120.
84. | 60.
50.
52.
39. | 150.
200.
200.
350. | MERCIAL
ACPES | 45. | 60.
57.
51. | 39.
41.
57.
31.
45. | 91. |
| | EMPLOY- | 1164. | 1636.
1484.
1486.
1310. | 1476.
1503.
2089.
1116.
1651. | 2599.
1302.
2742.
1352.
2727. | NET BES- | 253. | 258.
258.
269. | 202.
282.
246.
212.
185. | 179.
259.
188.
207.
194. |
| | HOUSE-
HOLDS | 1536. | 1530.
1530.
1582.
1576. | 1352.
1704.
1535.
1577.
1410. | 1254.
1809.
1368.
1450.
1650. | .USED. | 313. | 338.
328.
340.
334. | 267.
335.
255.
255. | 313.
319.
330.
273.
329. |
| MILTON (D) | POPULA-
TION | 5222. | 5103.
5103.
5273.
5254. | 4516.
5576.
5119.
5258.
4705. | 4190.
6023.
4566.
4938.
5498. | VACANT
(AVATL)
ACRES | 25. | 3.
15.
8. | 81.
0.0.
94. | 20. |
| 61 MILTO | | 1960
1970 | 1980 HIGH
1980 LIW
1990 HIGH | 2000 HIGH
2000 I CM
2010 HIGH
2020 HIGH
2020 LOW
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2000 LCM
2010 HIGH
2020 HIGH
2020 LCM | 2030 HIGH
2030 LCM
2040 HIGH
2040 LCM
2040 LCM
2040 LCM |

METRIPOLLITAN DISTURCT COMMISSION--MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| . TIM 29 | MILTON (N) | | | | | | | | | | | |
|--|--|--|--|--|---|---|---|--|--------------------------------------|---|---|--|
| | POTAL
POPILA-
TION | 1071
4005 =-
40175 | EMOL NY- | INCOME | LOWER
MIDDLE
INC HHIS | HPDER ATTOR | HIGH
INCOME
HH'S | MANUF G | MANUF'G | VERY WET
MANUE G
EMPLOYMT | INDIST./
NON-MFG.
EMPLOYMT | COMMER-
CIAL
EMPLOYMT |
| 1960 | 21153. | 5960. | 1321. | 387. | 1686. | 1587. | 2205. | 25. | 114. | •• | 254. | 928. |
| 1980 HIGH
1980 HIGH
1990 HIGH | 26112.
25615.
29049.
28312. | 7715.
7564.
8605.
8392. | 3416.
3079.
4290.
3795. | 731.
706.
837. | 2285.
2235.
2546.
2492. | 2250.
2205.
2615.
2501. | 2449.
2419.
2607. | | 109.
86.
16. | | 1293.
1065.
1837. | 2014.
1928.
2436.
2169. |
| 2000 HIGH
2010 HIGH
2010 HIGH
2010 LIW
2020 HIGH
2020 LIW | 33724.
28146.
38689.
29413.
45249. | 10022.
8513.
11526.
8716.
13514. | 4679.
4154.
5121.
4466.
5490.
4597. | 938.
884.
1018.
928.
1112. | 2826.
2652.
3136.
2764.
3579. | 2976.
2656.
3336.
2748.
3779. | 3282.
2320.
4035.
2275.
5044. | | | | 1992.
1860.
2211.
2085.
2324. | 2687.
2294.
2911.
2381.
3166.
2433. |
| 2050 HIGH
2050 HIGH
2050 HIGH
2050 LOW | 51472.
24737.
48502.
30134.
47182.
30513. | 15400.
8814.
14503.
14100.
9049. | 4847.
7178.
5262.
7655. | 1400.
992.
1500.
1600. | 4000.
2942.
4000.
4000.
3085. | 5007.
2810.
5000.
7819.
5000. | 5000.
2070.
4000.
3500. | | | | 2588.
2332.
2879.
2533.
3034. | 3622.
2515.
4299.
2729.
4621. |
| | VACANT
(AVATL)
ACPES | 105FD. | NET DEST | MED COM-
MEDCIAL
ACOFS | NET IND/
WANIF G
ACPFS | NET IND/
NOM-WEG
ACP ES | EXTENSIV
INDUST'L
ACRES | EXTENSIV
TNSTITUT
ACRES | STREETS/
HIGHWAYS
ACRES | RESTRICT
OPEN
SPACE AC | TOTAL ACPES | Co ES |
| 1940 | 1254. | 3185. | 3006. | 165. | . v. | 9. | 114. | 46.
46. | 691. | 2736. | 80 | 8026. |
| 1980 HIGH
1980 LOW
1990 HIGH
1990 LEW | 768.
318.
0.
22. | 4051.
408.
4278.
4258. | 3717.
3685.
3912.
3911. | 294.
294.
324. | . 1. 0. | 31.
27.
41. | 114. | , 94
, 64
, 64
, 64 | 795.
789.
821. | 2752.
2751.
2767. | | |
| 2000 HICH
2010 LOW
2010 HIGH
2010 HIGH
2020 HIGH | 200.
0.
1116.
9. | 4279.
4278.
4165.
4278.
4278. | 3912.
3735.
3912.
3795.
3912. | 324.
324.
324.
324.
324. | | 41.
43.
41.
41. | ************************************** | , , , , , , , , , , , , , , , , , , , | 821.
821.
821.
809.
821. | 2767.
2769.
2767.
2773.
2767. | | 7886
2886
1800
1900
1900
1900 |
| 2030 HICH
2040 HICH
2040 HICH
2050 HICH
2050 LOW | 0.
287.
186.
251.
266. | 4278.
4100.
4100.
4035.
4023. | 3912.
3620.
3684.
3582.
3582. | 324.
370.
347.
391. | | 41.
47.
50.
58. | *************************************** | , 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, | 821.
798.
813.
803.
810. | 2767.
2767.
2767.
2777.
2767. | 7 (2000)
2000)
2000)
2000)
2000)
2000) | Credition of Control o |
| | | | | | | | | | | | | |

METROPOLITAN DISTRICT COMMISSION--WASTEWATE STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMED-
CIAL
EMPLOYMT | 276. | 250.
228.
200.
200. | 239.
244.
518.
521.
389.
688. | 1041.
560.
969.
904.
1561. | ICRES | 678. | | | |
|-----------|----------------------------------|-------|---|--|---|--------------------------------|------|--|--|--|
| | TNOUST./
NON-MEG.
EMPLOYMT | 19. | | 24.
124.
183.
93. | 250.
196.
233.
339.
418. | TOTAL ACRES | | | | |
| | WERY WET MANIF & | •• | •••• | | | RESTRICT
OPEN
SPACE AC | 128. | 117.
111.
117. | 117.
119.
119.
118. | 122.
121.
122.
121.
124. |
| | WET. | •• | 468.
403.
508.
432. | 533.
442.
498.
404.
435. | 398.
209.
319.
136.
207. | STREETS/
HIGHWAYS
ACRES | 99. | 87.
86.
85. | 81.
76.
89.
83. | 91.
78.
82.
93. |
| | *DRY *MANUF *G | | | | 0.
0.
200. | EXTENSIV
INSTITUT
ACRES | 43. | 39.
39.
39. | 39.
39.
39.
39. | 39.
39.
39.
39. |
| | HIGH
INCOME
HH'S | 312. | 301.
301.
300.
300. | 308.
261.
397.
288.
381. | 581.
331.
465.
419.
814. | EXTENSIV
INDUST •L
ACRES | •• | •••• | | |
| | UPPER
MIDDLE
INC HH'S | 257. | 393.
392.
397. | 371.
346.
389.
338.
346. | 375.
270.
300.
277.
525. | NET IND/
NON-MFG
ACPES | •• | •••• | 1.
6.
6.
9. | 12.
10.
12.
17.
16. |
| | LOWER MI DOLE | 381. | 496.
495.
498. | 428.
434.
384.
390.
318. | 233.
184.
186.
147.
200. | NET IND/
MANUFG
ACRES | •• | 10.
9.
11. | 12.
11.
10. | \$. \$ \$ |
| | LOW | 119. | 100.
100.
102.
100. | 87.
93.
93.
84. | 69.
55.
50.
96. | NET COM-
MERCIAL
ACRES | 71. | 58.
53.
47. | 68.
68.
68.
51. | 94.
65.
88.
107.
100. |
| | TOTAL
EMPLOY- | 298. | 718.
632.
709. | 796.
721.
1140.
1107.
917. | 1689.
965.
1520.
1379.
2387.
1898. | NET RES-
IDENTIAL
ACRES | 313. | 350.
350.
351.
351. | 305.
263.
345.
283.
259. | 302.
254.
241.
261.
291. |
| | TOTAL
HAUSE- | 1069. | 1289.
1287.
1298.
1295. | 1195.
1129.
1264.
1109.
1129. | 1258.
848.
1006.
893.
1635. | · USEn. | 384. | 419.
413.
409. | 324.
430.
369.
324. | 417.
333.
348.
369.
422.
423. |
| | TOTAL
POPULA-
TION | 3960. | 4251.
4245.
4290.
4269. | 3949.
3740.
4170.
3674.
3662. | 4153.
2840.
3345.
2984.
5358. | VACANT
(AVATL)
ACRES | 35. | 15.
23.
27. | 74.
121.
0.
68.
119. | 9.
107.
87.
64.
0. |
| 63 NAHANT | | 1960 | 1980 HIGH
1980 HIGH
1990 LICH
1990 LOW | 2000 HIGH
2000 LIW
2010 HIGH
2010 LIW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LM
2040 HIGH
2040 L CM
2050 HIGH
2050 LCM | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1900 LCW | 2000 HIGH
2000 LPW
2010 HIGH
2010 LFW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOM
2040 HIGH
2040 HIGH
2050 HIGH
2050 LOM |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLEGATIONS 1960 - 2050

15456. 18065. 16050. 16748. 14669. 15531. 14876. 16940. 18910. 16205. 20489. COMMER-CIAL EMPLOYMT 12686 4739. 13177. TOTAL ACRES 10234 8183. 7951. 8212. 8020. 7209. 5972. 7587. 6839. 7958. 7605. 7851. 7618. 7635. 7293. 7889. INDUST./ NON-MFG. EMPLOYMT .0. 0.0 .0 .00 .00 1628. 1617. 1628. 1617. 1590. 1588. 1608. 1615. 1609. 1624. 1634. 1603 1617 45 VERY WET MANUF 'G EMPLOYMT SPACE AC PESTPICT 1564. 25. 93. 1108. 1080. 1143. 729. 570. 1026. 995. 1085. 1045. 1162. 1157. 1184. 1072. 1197. 339. 279. 207. 143. 622. STREETS/ HIGHWAYS ACRES MANUF G 187. 86. 86. 86. 86. 86. 86. EXTENSIV INSTITUT ACRES 3644. 2976. 3675. 2984. 3202. MANUF G 2916. 3577. 2938. 86. 3519. 2893. 3546. 3342. 3524. 873. 160. 2599. 2785. 2575. 160. 2676. 2570. 2747. 2612. 2197. 2518. 1951. 2739. 1960. 160. 160. 160. 2458. 2422. 2597. 2521. 160. 160. 160. 160. 160. EXTENSIV INDUST L ACRES 160. 3917. 3309. 3684. 2747. 3748. 2568. 3868. 3678. 4048. 3794. 4152. 3811. 464. 443. 465. 3623. 3487 415. 440. 390. 458. 244 NET IND! NON-WEG ACRES MIDDLF INC HH'S .09 181. 175. 170. 170. 189. 164. 190. 163. 7021. 5524. 147 LOWER NT DDLE 4996. 5913. 5286. 5418 MANUF G 169. 3648, 5477 82. 170. 4175 5448. 6562. 9619 2749. 798. 1203. 716. 688. 1052. 895. 1157. 849. 932. 1920. 1700. 2174. 1711. 2315. 1002. 1408. 1305. 1599. 1459. 1782. 1587. NET COM-MERCIAL ACRES 256. 4043. 3924. 4222. 4063. 4294. 3488. 3488. 3895. 4088. 3654. 4121. 3442. 4219. 26184. 29635. 26713. 30604. 27004. 32372. 27691. 32606. 27130. 25400. 28655. 24507. 22060. 26423. 23628. TOENTIAL 3017. 7676. 5924. 5555. 4850. 5503 5927. 4982. 6051. 14645. 12625. 14938. 11892. 15823. 11758. 5323. 5517. 5176. 12894. 12179. 13842. 12847. 14632. 13259. 10412. 10211. 11827. 11311. ACPES 3976. 7804. 8789. 1426. 2143. 1247. 2316. 1105. 1984. 1431. 1766. 1773. 2521. 2732. 1971. 2265. 40657. 40657. 48960. 38311. 50890. 40450. 42553. 48545. 44013. 35659. 34977. 40459. 37984. ACPES ACPES 1747. 4561. VACANT 28831. 42807. NAT TCK 1980 HICH 1980 LOW 1900 HICH 2030 HIGH 2030 LOW 2040 LOW 2050 HIGH 2050 HIGH 1980 HIGH 1990 HIGH 1990 LICH 2010 416H 2020 HIGH 2020 HIGH 2020 LOW 2030 LOW 2050 HIGH 2050 HIGH VOID HICH 2020 LCW 2020 HTGH 2020 LCW 1900 I OM HUIH UCOC 2030 HICH 7309 HIGH 1970 1940 49

METRAPOLITAN DISTRICT COMMISSION——WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 3672.
6396. | 6776.
6593.
6818.
6253. | 7072.
6633.
7993.
7029.
8634. | 8600.
7451.
8600.
7629.
8600.
8120. | ers. | •0• | 1000
1000
1000
1000
1000
1000
1000
100 | Mary Mary Mary Mary Mary Mary Mary Mary | 1
0
2 7
2 5
1 |
|------------|------------------------------------|----------------|--|---|---|-------------------------------|--------------|---|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT E | 2129. | 4500.
4500.
4482.
4742. | 4438.
4833.
4681.
5024.
4714. | 4810.
5082.
4945.
5160.
4917. | TOTAL ACPES | 8160 | 10000 | | |
| | VERY WET MANUF G | :: | | | | RESTRICT
OPEN
SPACE AC | 1068. | 1089.
1089.
1107. | 1122.
1117.
1141.
1134.
1154. | 1154.
1143.
1154.
1143.
1154. |
| | MANUF G | 1405. | 864.
685.
787.
591. | 742.
539.
626.
429.
461. | 305.
195.
198.
127.
129. | STREETS/
HIGHWAYS
ACRES | 825.
908. | 982.
974.
1005. | 1029.
1017.
1068.
1045.
1091. | 1086.
1086.
1086.
1056.
1085. |
| | MANUF 'G | 2747. | 1865.
1096.
1720.
1027. | 1500.
1000.
1350.
1200.
1000. | 815.
675.
545.
447.
463. | EXTENSIV
INSTITUT
ACRES | 278. | 278.
278.
278. | 278.
278.
278.
278.
278. | 278.
278.
278.
278.
278. |
| | HIGH
INCOME
HH'S | 3124. | 3572.
3568.
3609. | 3659.
3659.
4100.
3802.
4405. | 4700.
3969.
4700.
3825.
4700. | EXTENSIV
INDUST L
ACRES | 211. | 211.
211.
211.
211. | 211.
211.
211.
211.
211. | 211.
211.
211.
211.
211. |
| | JPPEP MINDLE | 2025. | 3494.
3459.
4050.
3922. | 4721.
4452.
5422.
4941.
6126.
5369. | 6800.
5937.
6800.
5976.
6800. | NET IND/ E
NON-WEG I | 39. | 128.
128.
127.
144. | 126.
142.
143.
144. | 151.
167.
160.
172.
159. |
| | LOWER MINDLE | 1675. | 2706.
2674.
3411.
3247. | 4131.
3874.
4896.
4454.
5703. | 6400.
6400.
6400.
6400. | MET IND/ PANDENG ACRES | 118. | 77.
51.
71. | 64.
44.
56.
41.
47. | 32.
25.
21.
17. |
| | LOW
INCOME
HH · S | 456. | 661.
646.
874.
842. | 1037.
1221.
1145.
1407. | 1500.
1500.
1500.
1500.
1500. | NET COM-
MERCIAL
ACRES | 252. | 465.
452.
467.
429. | 484.
546.
548.
589. | 586.
586.
521.
586. |
| | FOT AL
EMPLOY- | 9953. | 14005.
12873.
13807.
12613. | 13753.
13005.
14651.
13482.
15009. | 14530.
13403.
14288.
13363.
14109. | NET RES-
IDENTIAL
ACRES | 2549. | 3595.
3592.
3839.
3800. | 4055.
3994.
4337.
4226.
4513. | 4481.
4481.
4277.
4481. |
| | TOTAL
HOUSE- | 7280.
8709. | 10433.
10347.
11945.
11563. | 13697.
12976.
15640.
14342.
17641. | 17806.
17806.
19400.
17701.
19400. | .USED. | 2958. | 4265.
4223.
4505.
4419. | 4729.
4642.
5081.
4910.
5293. | 5250.
4998.
5248.
4982.
5743. |
| 444 | POPULA-
TION | 25793. | 34542.
34259.
39531.
38271. | 45314.
42934.
50151.
46007.
56563. | 62193.
57392.
62193.
56756.
62193.
57429. | VACANT
(AVATL)
ACRES | 2820. | 1334.
1385.
1054.
1156. | 791.
894.
190.
582.
113. | 181.
474.
193.
490.
189. |
| AR NEEDHAM | | 1960 | 1980 HTGH
1980 LCW
1990 HTGH
1900 LCW | 2000 HIGH
2000 LPW
2010 HIGH
2010 LPW
2020 HIGH
2020 LPW | 2030 HTCH
2040 HTCH
2040 HTCH
2050 HTCH
2050 HTCH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2050 HICH
2040 HICH
2050 HICH
2050 HICH |

MET POPOL IT AN DISTO ICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMED-
CIAL
FMPLOYMT | 4639. | 7139.
6947.
6906. | 6661.
5964.
6506.
5670.
6305. | 6410.
5043.
6492.
5196.
6575. | Saao | 4106. | | | |
|------------|----------------------------------|--------|--------------------------------------|--|--|-------------------------------|------------|------------------------------------|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 1471. | 3000.
3000.
3389.
3481. | 3456.
3548.
3595.
3820.
3584. | 3728.
3826.
3859.
4017.
3942. | TOTAL ACRE | 41 | | | |
| | VERY WET
MANIFOG
EMPLOYMT | •• | 1.2. | | | RESTRICT
DPEN
SPACE AC | 733. | 693.
693.
694. | 695.
695.
701.
696. | 696.
701.
696.
701.
699. |
| | MANUF G | 657. | 1260.
990.
1010.
749. | 566.
400.
290.
145. | .000 | STREETS/
HIGHWAYS
ACPES | 699. | 729.
730.
731. | 728.
719.
730.
730. | 731.
724.
724.
733. |
| | MANJF G | 4419. | 250.
250.
200.
200. | 100.
100.
50.
0. | 0.
0.
200.
200. | EXTENSIV
INSTITUT
ACPES | | . · · · · | | |
| | HIGH
INCOME
HH'S | 3202. | 6103.
6120.
5410.
5500. | 4525.
4702.
3849.
4363.
3243. | 2803.
2955.
2341.
2740.
2905. | EXTENSIV
INDUST*L
ACRES | 61. | 58.
58.
58. | 58.
58.
58.
58. | 58.
58.
58.
58. |
| | HIDDLF
MIDDLF
INC HH S | 3229. | 4050.
3992.
4535.
4246. | 4917.
4288.
5178.
4492.
5437. | 5600.
4215.
5412.
4234.
5600. | NET IND/
NON-MEG
ACRES | 45. | 72.
79.
75. | 79.
107.
84.
117.
84. | 89.
123.
98.
136.
103. |
| | LOWED HYS | 4237. | 3702.
3641.
4311. | 4817.
4320.
5265.
4664.
5717. | 6100.
5188.
6100.
5302.
6100. | NET IND/
MANUF G
ACRES | 54.
18. | 15.
12.
12. | 3.5. | 1.
0.
3. |
| | LOW | 1010. | 1056.
1039.
1348.
1259. | 1617.
1486.
1857.
1662.
2073. | 2200.
2200.
1999.
2200.
2200. | NET COM-
MERCIAL
ACRES | 289. | 420.
409.
406.
366. | 392.
351.
383.
334.
371. | 374.
296.
380.
307.
385. |
| | TOTAL
EMPLOY-
MENT | 11186. | 11650.
11188.
11504.
19654. | 19783.
19112.
19441.
9749.
10735. | 10232.
8934.
10351.
0213.
10717. | NET RES-
IDENTIAL
ACRES | 1801. | 2118.
2124.
2130.
2150. | 2134.
2055.
2153.
2163.
2166. | 2156.
1963.
2073.
1952.
2124. |
| | TOTAL
HAUSE- | 11679. | 14911.
14792.
15605.
15042. | 15876.
14795.
16149.
15181.
16469.
15054. | 15703.
14351.
16053.
14274.
16895. | ACP ES | 2629. | 2625.
2624.
2623.
2673. | 2611.
2518.
2623.
2617.
2622.
2430. | 2620.
2383.
2550.
2395.
2615. |
| NEMLUN (D) | POTAL
POPULA-
TION | 40409. | 49046.
48666.
49705.
47960. | 50547.
\$1392.
\$1392.
\$2386. | 53110.
45820.
51095.
45580.
53427.
45908. | VACANT
(AVAIL)
ACRES | 423. | | 14.
116.
0.
0.
212. | 262.
77.
247.
0.
200. |
| 99 NEMAL | | 1960 | 1980 HIGH
1980 - UV
1990 HIGH | 2000 416H
2000 LCW
2010 416H
2010 LCW
2020 LCW
2020 LCW | 2030 HIGH
2047 LTW
2040 LTW
2040 LTW
2050 HIGH
2050 LTW | | 1940 | 1980 HICH
1980 LIN
1990 HICH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2020 HIGH
2020 LOW
2040 HIGH
2040 LCW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMER-
CIAL
EMPLOYMT | 7663. | 12276.
12003.
11892.
11139. | 11194.
11194.
11073.
9496.
10486. | 10535.
8754.
10690.
8807.
10668. | CRES | 7625. | | | |
|------------|-----------------------------------|--------|--|---|--|-------------------------------|-------|--|---|--|
| | INDUST./
NON-MFG.
EMPL NYMT | 2473. | 7608.
6309.
7594. | 7213.
7030.
7063.
6749.
6517. | 6506.
6411.
6536.
6489.
6433. | TOTAL ACRES | 76 | | | |
| | VERY WET MANUF'S | •• | 3. | | | RESTRICT
OPEN
SPACE AC | 1164. | 1188.
1186.
1209. | 1223.
1224.
1225.
1224.
1228.
1230. | 1228.
1230.
1228.
1231.
1230. |
| | MANUE'S
EMPLOYMT | 710. | 1590.
1285.
1468.
1174. | 1005.
793.
574.
437.
297. | 193.
213.
125.
138.
81. | STREETS/
HIGHWAYS
ACRES | 1093. | 1138.
1121.
1171. | 1190.
1185.
1191.
1129.
1188. | 1188.
1121.
1178.
1124.
1181. |
| | * DRY*
MANUF'G
EMPLOYMT | 4787. | 250.
250.
200. | 100.
100.
50.
50.
0. | | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 7566. | 4217.
4165.
4536.
4401. | 4723.
4520.
4307.
4218.
3808. | 3300.
3300.
2765.
3300.
3300. | EXTENSIV
INDUST*L
ACRES | 94. | 94. | 94. | 94. |
| | MIDDLE
MIDDLE
INC HH'S | 2617. | 4257.
4161.
4724.
4625. | 5327.
5123.
5745.
4881.
6125. | 6500.
6500.
6500.
4818.
6500. | NET IND! E | 24. | 147.
108.
147.
125. | 139.
130.
137.
126. | 126.
119.
127.
121.
125.
120. |
| | LOWER MIDDLE | 2303. | 4907.
4801.
5594.
5465. | 6368.
6175.
7091.
6499.
7817. | 8500.
7000.
8500.
7200.
8500. | NET IND/
MANUF G
ACRES | 74. | 25.
21.
22.
18. | 15.
12.
8.
7. | 3.
2. 3.
1. 1. |
| | TNCOWE | 1522. | 638.
642.
740.
729. | 1106.
1044.
1476.
1354.
1833. | 2200.
1800.
2200.
1800.
2200.
1800. | MERCIAL
ACRES | 467. | 747.
731.
724. | 702.
681.
674.
578.
638. | 640.
533.
650.
536.
649. |
| | EMPL OY- | 15633. | 21728.
19850.
21154.
19400. | 19853.
19117.
18760.
16732.
17299. | 17234.
15378.
17352.
15434.
17182. | NET RES-
IDENTIAL
ACRES | 3706. | 3690.
3643.
4037. | 4261.
4291.
4295.
3991.
4346. | 4346.
4021.
4233.
4035.
4271. |
| | HOUSE-
HOLDS | 14099. | 14019.
13769.
15594.
15220. | 17523.
16863.
18618.
16951.
19583. | 20500.
16898.
19955.
17118.
20500. | * US FD * | 4270. | 4610.
4502.
4930.
4828. | 5118.
5114.
5115.
4700.
5115. | 5114.
4675.
5011.
4694.
5046. |
| NEWTON (N) | POPULA-
TION | 51975. | 48523.
47725.
52005.
50847. | 57985.
55939.
61379.
56213.
64370. | 67214.
56048.
65555.
56729.
67214. | VACANT
(AVAIL)
ACRES | 1003. | 595.
722.
221.
342. | 9.
8.
0.
478.
0. | 9.
505.
113.
482.
74. |
| AT NEWT | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTCH
2030 LOW
2040 HTGH
2050 HTGH
2050 HTGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LCW
2040 HIGH
2040 LCW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMEN-
CIAL
CIAL
EMPLOYNT | 237. | 470.
455.
546. | 938.
991.
1595.
1383.
2362. | 3289.
2351.
4595.
3068.
5657. | Säao | 9824. | | | |
|------------|-------------------------------------|-------------|--|---|---|-------------------------------|-------|--|--|--|
| | INNUST./
NON-MFG.
EMPLOYMT | 29. | 209.
173.
234.
209. | 349.
392.
550.
587.
721. | 1018.
1000.
1372.
1303.
1718. | TOTAL ACPES | 86 | | | |
| | VERY WET
MANUE .G | •• | | | | RESTRICT
OPEN
SPACE AC | 882. | 923.
918.
961. | 993.
985.
1022.
1009.
1045. | 1053.
1079.
1079.
1034.
1114. |
| | MANUF G | 98. | 183.
159.
233.
198. | 238.
200-
235.
195-
224. | 229.
117.
231.
106.
199. | STREETS/
HIGHWAYS
ACRES | 277. | 398.
394.
452. | 496.
538.
517.
570. | 592.
637.
514.
674. |
| | MANUF & | | | | | EXTENSIV
INSTITUT
ACRES | •• | | | •••• |
| | HTGH
INCOME
HH'S | 78.
186. | 424.
405.
722.
672. | 990.
899.
1241.
1067.
1499. | 1857.
1456.
2098.
1566.
2591. | EXTENSIV
INDUST'L
ACRES | 150. | 150.
150.
150. | 150.
150.
150.
150.
150. | 150.
150.
150.
150.
150. |
| | UPPER
MIDDLE
INC HH'S | 184. | 501.
487.
714. | 946.
858.
1190.
1035.
1456. | 1766.
1459.
2044.
1491.
2361. | NET IND!
NON-WEG
ACRES | 3. | 14.
13.
14. | 17.
21.
21.
24. | 30.
37.
36.
44. |
| | L'MER
MI DOLE
INC HH'S | 368. | 543.
529.
743. | 945.
864.
1169.
1032.
1422. | 1758.
1429.
2114.
1524.
2491.
1587. | NET IND! MANUF G | 358. | 506.
505.
507.
506. | 507.
506.
501.
493.
478. | 478.
296.
478.
296.
411. |
| | NCJ NE JAME | 65. | 67.
90.
79. | 139.
118.
198.
270.
212. | 386.
483.
307.
594. | NET COM- | 246. | 837.
836.
843. | 869.
872.
912.
898.
964. | 1025.
963.
1112.
1011.
1183. |
| | FUOL OV- | 364. | 962.
787.
1013. | 1526.
1583.
2381.
2166.
3307. | 4536.
3467.
6198.
4476.
7573. | NET RES-
IDENTIAL
ACRES | 563. | 2372.
2339.
2891.
2824. | 3281.
3185.
3647.
3937.
3713. | 4042.
3512.
4366.
3593.
4799. |
| | 10181
1005- | 695. | 1535.
1488.
2270.
2106. | 3021.
2739.
3797.
3297.
4547. | 5768.
4644.
6740.
4889.
8037. | ·USEn. | 1171. | 3729.
3693.
4255.
4183. | 4674.
4581.
5082.
4896.
5402. | 5575.
4800.
5993.
4935.
5437. |
| J.K | POPULA-
TION | 3471. | 6267.
6102.
8838.
8254. | 11465.
10481.
14183.
12433.
15592.
13911. | 20503.
16583.
23808.
17512.
28218.
19505. | VACANT
(AVATL)
ACRES | 7344. | 4627.
4668.
4006.
4091. | 3620.
3033.
3251.
2657. | 2453.
3349.
1064.
3190.
1449. |
| EA NO FOLK | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 1 CM
2010 HIGH
2010 L CM
2020 L CM | 2030 HIGH
2030 LND
2040 HIGH
2047 LCW
2050 HIGH
2050 LCW | | 1960 | 1980 HICH
1980 LOW
1990 HICH
1990 FOW | 2000 HIGH
2001 I TW
2010 HIGH
2010 L TW
2020 HIGH
2021 H CH | 2010 HICH
2010 LOW
2040 HICH
2040 HICH
2060 HICH |

METROPOLITAN NISTRICT COMMISSION—-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 585.
1179. | 1973.
1869.
2997.
2464. | 4400.
3900.
5900.
7500.
7000. | 9070.
7764.
11198.
8844.
12637. | ACR ES | 8659. | | | |
|---------------|----------------------------------|---------------|--------------------------------------|---|---|--------------------------------|--------------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 201. | 921.
761.
1329.
1155. | 1613.
1636.
2278.
2726.
2774. | 3234.
3248.
3787.
3733.
4216. | TOTAL A | 98 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | :: | .1.00 | | | RESTRICT
OPEN
SPACE AC | 1197. | 1211.
1210.
1240.
1236. | 1255.
1249.
1277.
1267.
1290. | 1291.
1277.
1302.
1279.
1316. |
| | MANUF G | 18. | 33.
29.
69. | 76.
55.
75.
71. | 73.
73.0.
63.0. | STREETS/
HIGHMAYS
ACRES | 324. | 434.
428.
492.
474. | 533.
517.
587.
566.
629. | 658.
609.
706.
633.
743.
663. |
| | *DRY *
MANUF *G
EMPLOYMT | 59. | 449.
262.
735. | 730.
780.
495.
848.
565. | 977.
678.
1052.
744.
906. | EXTENSIV
INSTITUT
ACRES | :: | | | |
| | HIGH
INCOME
HH'S | 384. | 783.
766.
982.
937. | 1158.
1081.
1330.
1191.
1503. | 1724.
1415.
1871.
1475.
2165. | EXTENSIV INDUST*L ACRES | 226. | 226.
226.
226.
226. | 226.
226.
226.
226.
226. | 226.
226.
226.
226.
226. |
| | UPPER
MIDDLE
INC HH'S | 774. | 1041.
1024.
1244.
1187. | 1460.
1357.
1683.
1512.
1908. | 2107.
1803.
2271.
1818.
2442.
1859. | NET IND/
NON-MFG I | 45. | 113.
103.
141.
129. | 159.
161.
204.
205.
234. | 268.
269.
304.
333.
326. |
| | LOWER
MIDDLE
INC HH'S | 833. | 1316.
1293.
1583.
1495. | 1838.
1703.
2106.
1896.
2388. | 2257.
2256.
2986.
2328.
3301. | NET IND/ P
MANUF G
ACRES | 3. | 15.
24.
15. | 24.
15.
25.
16.
27. | 31.
33.
22.
78. |
| | LOW
INCOME
HH'S | 166. | 332.
321.
445.
410. | 545.
498.
662.
592.
785. | 997.
787.
988.
792.
1962. | NET COM-
MERCIAL
ACRES | 139. | 332.
325.
400.
365. | 494.
460.
594.
760. | 805.
718.
947.
1043.
896. |
| | THTAL
EMPLOY- | 845. | 3377.
2921.
5130.
4100. | 6818.
6034.
9032.
8240.
111144.
10389. | 13354.
11690.
16110.
13321.
17822.
15191. | NET RES-
IDENTIAL
ACRES | 1026. | 1622.
1603.
1989.
1926. | 2175.
2094.
2452.
2320.
2607. | 2619.
2280.
2761.
2310.
2937. |
| | TOTAL
HOUS E-
HOLDS | 2923. | 3472.
3494.
4255.
4028. | 5001.
4638.
5780.
5191.
6584. | 7404.
6261.
8117.
6412.
8970. | .USED. | 1212. | 2082.
2040.
2553. | 2852.
2731.
3774.
3102.
3568. | 3722.
4045.
4423.
4336.
3611. |
| NOOTH READING | POPULA-
TION | 8331. | 12991.
12739.
15461.
14643. | 18147.
16842.
20376.
18311.
22529. | 25319.
21432.
26930.
21305.
29744. | VACANT
(AVAIL)
ACRES | 5701. | 4706.
4756.
4148.
4289. | 3793.
3936.
3294.
3498.
2947. | 2752.
3261.
2380.
3098.
2038. |
| H100N 69 | | 1960 | 1980 HIGH
1980 HIGH
1990 HIGH | 2000 HIGH
2000 LPW
2010 HIGH
2010 LPW
2020 HIGH
2020 LPW | 2030 HIGH
2030 LIW
2040 HIGH
2040 LIW
2050 HIGH
2050 LIW | | 1960
1979 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTGH
2030 LCW
2040 HTGH
2040 LCW
2050 HTGH
2050 LCW |

METRIPOLLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMWED-
CIAL
FUDLOYMT | 595. | 1806.
1707.
2500.
2500. | 3503.
3869.
5767.
5387.
7569. | 9028.
7352.
10985.
8320.
12272. | RES | 31. | | | 10 Sept. 20.000 |
|--------------|-----------------------------------|--------------|--------------------------------------|---|---|--------------------------------|-------|--|---|--|
| | INDUST./
NON-MFG.
EMPL OYMT | 138. | 649.
535.
1157.
984. | 1447.
1511.
2148.
2291.
2538.
2708. | 3012.
3129.
3519.
3913.
3860. | TOTAL ACRE | 11981 | | | |
| | MANUF G | •• | | | | RESTRICT
OPEN
SPACE AC | 1041. | 1056.
1055.
1088.
1084. | 1109.
1104.
1141.
1130.
1165. | 1173.
1149.
1197.
1154.
1228. |
| | MANUF G | 23. | | | 5. 0.
15. 1. | STP EETS/
HIGHWAYS
ACRES | 408. | 508.
501.
567. | 611.
606.
686.
667.
743. | 778.
717.
836.
742.
887. |
| | MANIF 'G | 259. | 1339.
892.
1791.
1160. | 1778.
1195.
1872.
1300.
1973. | 2100.
1500.
2217.
1593.
1954. | EXTENS IV
INSTITUT
ACRES | •• | | •••• | |
| | HIGH
INCOME
HH'S | 262. | 690.
671.
1000. | 1309.
1197.
1629.
1403.
1971. | 2492.
1940.
2815.
2085.
3473. | EXTENSIV
INDUST'L
ACRES | 150. | 150.
150.
150.
150. | 150.
150.
150.
150.
150. | 150.
150.
150.
150.
150. |
| | MINDLE HIS | 561.
841. | 982.
964.
1369.
1282. | 1836.
2341.
2014.
2887.
2352. | 3535.
2901.
4021.
2952.
4555. | NET IND/
NON-MEG
ACRES | 33. | 72.
64.
106. | 125.
129.
172.
181.
198. | 230.
253.
265.
290.
286. |
| | LOWER WIDDLE | 780. | 1017.
999.
1338.
1248. | 1693.
1549.
2097.
1848.
2555. | 3180.
2584.
3776.
2732.
4401.
2827. | MET IND/
MANUF G
ACPES | 7. | 33.
22.
45. | 44.
30.
47.
49. | 55.
58.
51. |
| | LOW | 176. | 353.
342.
455.
421. | 551.
509.
674.
613.
797. | 901.
794.
1010.
799.
1109. | NET COM-
MERCIAL
ACRES | 195. | 390.
383.
436. | 503.
527.
654.
774. | 871.
760.
1002.
824.
1088. |
| | EMPL TY- | 1015. | 3795.
3135.
5448.
4643. | 6729.
6575.
9789.
12080.
10760. | 14144.
11980.
16726.
13464.
18153. | NET RES-
INENTIAL
ACRES | 735. | 1262.
1244.
1669.
1617. | 1934.
1860.
2326.
2186.
2624.
2419. | 2725.
2300.
3028.
2369.
3411. |
| | HOUSE-
HOLDS | 2462. | 3042.
2976.
4162.
3894. | 5390.
4910.
5741.
8209.
6790. | 10108.
8219.
11621.
8568.
13538. | ·USEN. | 969. | 1757.
1714.
22555.
2176. | 2547.
3199.
3028.
3646. | 3881.
3336.
4251.
3501.
4840. |
| NOSTHBORNUGH | POPULA-
TION | 9218. | 11044.
10806.
15078.
14112. | 19496.
1772.
23687.
28827.
23859. | 35472.
28860.
39606.
29224.
45122.
31768. | VACANT
(AVATL)
ACRES | 9413. | 8510.
8561.
7920.
8014. | 7504.
7574.
5805.
7006.
6278. | 5999.
6629.
5447.
6434.
4876. |
| TO NOT | | 1960 | 1980 416H
1980 416H
1990 416H | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 416H
2030 LOW
2040 416H
2040 LOW
2050 416H | | 1967 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2003 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMEP-
CIAL
EMPLOYMT | 341. | 942.
921.
958. | 1619.
1763.
2716.
2469.
3844. | 5537.
4076.
8795.
5843.
11969. | ACRES | 13651. | | | |
|-------------|-----------------------------------|-------|-------------------------------------|---|--|-------------------------------|--------|--|---|---|
| | INDUST./
NON-MFG.
EMPL NYMT | 95. | 361.
299.
365. | 562.
650.
906.
1011.
1161. | 1697.
1708.
2556.
2420.
3525. | TOTAL | 13 | | | |
| | VERY WET MANUF'S | •• | •••• | •••• | | RESTRICT
OPEN
SPACE AC | 2289. | 2308.
2307.
2341.
2336. | 2358.
2380.
2380.
2371.
2392. | 2399.
2380.
2416.
2384.
2440. |
| | MANUF.G | 15. | 45.
39.
83.
64. | 48.
21.
47.
20.
40. | , , , , , , , , , , , , , , , , , , , | STREFTS/
HIGHWAYS
ACRES | 446. | 571.
566.
612.
602. | 747.
739.
791.
823. | 862.
811.
937.
850.
1022. |
| | * DP Y * MANUF * G | 27. | 0.
60.
36. | 300.
345.
351.
391. | 783.
544.
1425.
1066.
2388. | EXTENSIV
INSTITUT
ACRES | ••• | | | |
| | HIGH
INCOME
HH'S | 384. | 793.
772.
1003.
955. | 1187.
1107.
1387.
1233.
1604. | 1963.
1562.
2241.
1683.
2879. | EXTENSIV
INDUST'L
ACRES | 227. | 227.
227.
227. | 227.
227.
227.
227.
227. | 227.
227.
227.
227.
227. |
| | NO HH S | 410. | 816.
800.
980. | 1160.
1078.
1399.
1244.
1680. | 2093.
1726.
2494.
1769.
3011. | NET IND/
NON-MEG
ACRES | 7. | 25.
21.
26. | 39.
45.
62.
69.
79.
85. | 114.
115.
172.
163.
236. |
| | LOWER MIDDLE | 500. | 765.
750.
942.
888. | 1119.
1037.
1340.
1200.
1599. | 2009.
1639.
2456.
1753.
2971. | MANUF'S | 8 | 2. 2. 5. 4. | 11.
10.
12.
13. | 25.
43.
70.
24. |
| | INCOME
HH'S | 137. | 164.
161.
204.
197. | 286.
269.
369.
339.
452. | 573.
498.
710.
507.
839. | NET COM-
MERCIAL
ACRES | 153. | 420.
414.
421.
406. | 465.
464.
538.
511.
614. | 727.
618.
944.
736.
1155. |
| | FWPL OY- | 478. | 1349.
1259.
1466.
1333. | 2529.
2735.
4014.
3851.
5436. | 8060.
6328.
12820.
9329.
17896. | NET RES-
IDENTIAL
ACRES | 1089. | 1869.
1847.
2274.
2215. | 2493.
2418.
2770.
2647.
2918. | 3003.
2688.
3213.
2736.
3513. |
| | HOUSE-
HOLDS | 1431. | 2538.
2484.
3130.
2970. | 3751.
3490.
4495.
6335.
4530. | 5638.
5425.
7900.
5712.
9700. | • USED • ACR ES | 1258. | 2317.
2285.
2726.
2649. | 3009.
2937.
3382.
3238.
3624. | 3868.
3438.
4371.
3556.
4974. |
| נוו | POTAL
POPULA-
TION | 5207. | 9406.
9204.
11594.
11002. | 13894.
12929.
16195.
14472.
19218.
16321. | 23912.
19544.
27666.
20007.
33963. | VACANT
(AVAIL)
ACRES | 9431. | 8228.
8266.
7746. | 7312.
7396.
6870.
7041.
6536. | 6296.
6797.
5701.
5525.
4989. |
| 11 NICONETT | | 1940 | 1980 HIGH
1990 HIGH
1990 HIGH | 2000 HIGH
2000 LDW
2010 HIGH
2010 LCW
2020 F'GH
2020 LOW | 2030 HIGH
2030 LPW
2040 HIGH
2040 LDW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
7020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION——WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMED-
CIAL
EMPLOYMT | 3762. | 6298.
• 6147.
5962.
• 5445. | 6036.
5661.
6163.
5522.
6217. | 6711.
5625.
7537.
6012.
8060. | ACPES | 6778. | | | |
|-----------|----------------------------------|------------------|--------------------------------------|--|---|-------------------------------|-------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 1155. | 2375.
1969.
2385.
2146. | 2432.
2338.
2534.
2457.
2539. | 2747.
2701.
2995.
2942.
3177. | TOTAL ACP | • | | 3 12 1 | 67
13
13
13
13
13
13
13
13
13
13
13
13
13 |
| | VEDY WET MANUF G | 26. | | | | RESTRICT
OPEN
SPACE AC | 1174. | 1191.
1189.
1209. | 1216.
1209.
1224.
1214.
1224. | 1224.
1214.
1224.
1224.
1214. |
| | MANUF G | 991. | 718.
580.
765. | 771.
613.
758.
589.
723. | 665.
355.
604.
231.
516.
150. | STPEETS/
HIGHWAYS
ACPES | 641. | 773.
752.
788. | 196.
173.
807.
806. | 795.
743.
795.
796. |
| | * DRY * MANUF * G | 3794. | 4656.
3434.
4121.
2988. | 3900.
3700.
3700.
3500. | 2916.
2495.
2317.
1945.
2202. | EXTENSIV
INSTITUT
ACRES | 12. | 12.
12.
12. | 12.
12.
12.
12. | 12.
12.
12.
12. |
| | HIGH
INCOME
HH'S | 1504. | 2169.
2141.
2285.
2219. | 2342.
2239.
2367.
2219.
2313. | 2032.
1576.
1686.
1302.
1462. | EXTENSIV
INDUST L
ACRES | 482. | 482.
482.
482.
482. | 482.
482.
482.
482.
482. | 482.
482.
482.
482.
482. |
| | UPPER
MIDDLE
INC HH'S | 2226. | 3243.
3193.
3479. | 3605.
3451.
3675.
3477.
3588. | 3013.
2390.
2501.
1975.
2073. | NET INN/ B
NON-WEG I | 144. | 231.
204.
232.
216. | 235.
242.
242.
237.
242. | 256.
273.
273.
285. |
| | LOWER
MIDDLE
INC HH'S | 2493. | 3857.
3789.
4422.
4218. | 4862.
4571.
5261.
4852.
5608. | 5761.
5200.
6200.
5500.
6583. | MET IND/ " | 182. | 203.
153.
184. | 176.
138.
168.
137.
159. | 135.
110.
110.
84.
103. |
| | LOW
INCOME
HH'S | 593. | 1028.
1010.
1161.
1106. | 1270.
1202.
1418.
1309.
1553. | 1675.
1480.
1778.
1485.
1879. | MERCIAL
ACRES | 392. | 382.
372.
361. | 366.
343.
374.
377. | 408.
463.
498.
414. |
| | TOTAL
EMOLOY- | 9702.
12882. | 14058.
12129.
13233.
11190. | 13138.
11613.
13155.
11568.
12979. | 13039.
11176.
13454.
11131.
13955. | NET REST | 1520. | 2329.
2298.
2560.
2483. | 2643.
2546.
2745.
2612.
2747. | 2562.
2196.
2445.
2044.
2360. |
| | TOTAL
HOUSE-
HOLDS | 6815.
9218. | 10297.
10132.
11346.
10939. | 12088.
11463.
12721.
11856.
13062. | 12481.
10647.
12165.
10262.
11997. | SHODE. | 2801. | 3145.
3028.
3337.
3166. | 3420.
3256.
3528.
3321.
3526. | 3361.
2899.
3291.
2765.
3245. |
| - Out | TOTAL
PROULA-
TION | 24899.
30858. | 33319.
32792.
36677.
35278. | 39050.
37053.
41077.
38310.
40863. | 39060.
33374.
38080.
32182.
37559. | Vacant
(AVAIL)
ACRES | 2394. | 1175.
1315.
950.
1154. | 852.
1047.
725.
729.
1081. | 904.
1428.
974.
1571.
1019.
1681. |
| JUMBON CL | | 1960 | 1980 HICH
1980 LOW
1990 HIGH | 2000 HTCH
2010 HTGH
2010 LCW
2020 LCW
2020 LCW | 2030 HTCH
2030 L M
2040 HTCH
2040 L M
2050 HTCH | | 1960 | 1980 HICH
1980 LOW
1990 HICH
1990 LOW | 2010 HIGH
2010 HIGH
2010 HIGH
2010 LIW
2020 HIGH | 2030 HTCH
2030 LOW
2040 HTCH
2040 LOW
2050 HTCH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| COMMER-
CIAL
EMPLOYMT | 4839. | 10000.
10000.
13622.
12152. | 13633.
12430.
13235.
11267.
13412. | 13943.
11063.
14889.
11137.
15196. | ACRES | 10758. | | 186 - | |
|----------------------------------|--------|--|--|--|-------------------------------|--------------|------------------------------------|---|---|
| INDUST./
NON-MFG.
EMPLOYMT | 962. | 4812.
3964.
6382.
5665. | 6297.
5920.
6211.
5863.
6056. | 6233.
5898.
6468.
6032.
6522. | TOTAL ACPES | 1 | | | |
| VERY WET
MANUF.G
EMPLOYMT | ••• | | | | RESTRICT
OPEN
SPACE AC | 1645. | 1670.
1668.
1690. | 1690.
1690.
1690.
1690.
1690.
1690.
1690. | |
| WET .
MANUF . G
EMPLOYMT | 3721. | 3694.
2910.
3579.
2773. | 3262.
2473.
2937.
2171.
2639. | 2388.
1275.
2127.
867.
1923. | STREETS/
HIGHWAYS
ACRES | 1035. | 1322.
1296.
1402.
1357. | 1395.
1379.
1374.
1378.
1296.
1395.
1279. | |
| *DRY *
MANUF G
EMPLOYMT | 3566. | 1972.
1708.
1936.
1669. | 1128.
1211.
629.
707.
328. | 213.
243.
138.
158.
118. | EXTENSIV
INSTITUT
ACRES | ••• | • • • | | |
| HIGH
INCOME
HH'S | 1385. | 2643.
2610.
2718.
2646. | 2578.
2486.
2356.
2260.
2024. | 1400.
1300.
1200.
1100.
1000. | EXTENSIV
INDUST'L
ACRES | 341. | 341.
341.
341. | 341.
341.
341.
341.
341.
341.
341. | |
| UPPER
MIDDLE
INC HH'S | 2896. | 4340.
4280.
4512.
4387. | 4272.
4136.
3828.
3753.
3252. | 2400.
2200.
2200.
2000.
2000. | NET IND/
NON-MEG
ACR FS | 38. | 289.
232.
394. | 388.
383.
373.
373.
351.
362.
401. | |
| LOWER
MIDDLE
INC HH'S | 3772. | 6783.
6666.
7677.
7336. | 8315.
7834.
8845.
8185.
9236. | 9500.
8700.
9565.
8600.
9636. | NET IND/
MANUF'S
ACRES | 212. | 270.
224.
263.
215. | 209.
170.
170.
141.
108.
124.
108. | |
| LOW
INCOME | 1482. | 1956.
1910.
2324.
2189. | 2577.
2394.
2778.
2539.
2951.
2640. | 3400.
3700.
3300.
4000.
3600. | NET COM-
MERCIAL
ACP ES | 229. | 480.
480.
661.
588. | 662.
602.
642.
546.
552.
536.
781. | |
| TOTAL
FMPLOY-
MENT | 10164. | 20478.
18582.
25519.
22259. | 24320.
22034.
23013.
20009.
22435. | 22777.
18478.
23622.
18194.
23759. | NET PES-
IDENTIAL
ACPES | 3309. | 3774.
3686.
3978.
3875. | 3965.
3923.
3923.
3762.
3475.
3666.
3378.
3658. | . 1076 |
| TOTAL
HOUS E-
HOLPS | 9535. | 15723.
15466.
17231.
16558. | 17743.
16851.
17808.
16737.
17463. | 16700.
15200.
15665.
15000.
16636. | ACRES | 2725. | 4773.
4622.
5296.
5024. | 5224.
6948.
5119.
4722.
4770.
4875.
4311.
4917. | • |
| TOTAL
PODULA-
TION | 32202. | 53779.
52907.
57183.
54964. | 58875.
55929.
59087.
55556.
57951. | 53762.
48962.
53650.
48322.
53556. | VACANT
(AVATL)
ACRES | 5011. | 2651.
2830.
2029. | 2108.
2430.
2229.
2687.
2439.
2967.
2516.
3100.
2449. | . 7616 |
| 73 PFAB0DV | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 I OW | 2030 HTCH
2030 LTW
2040 HTGH
2050 HTGH
2050 HTGH | | 1960
1970 | 1980 HIGH
1980 LUM
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2020 HIGH
2020 HIGH
2030 HIGH
2040 HIGH
2040 HIGH
2040 LOW
2040 HIGH
2040 LOW
2040 HIGH | MIT 0507 |

1960 - 2950 METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS

5867. 2586. COMMER-CIAL CIAL EMPLOYMT 1161. 2131. 4017 1357 3236 3052. 8864. 5533. 1601. TOTAL ACPES 14886. 375. 720. 2548. 2381. 3533. 3204. 1006. 1034. 1218. 1245. 1685. 488. INDUST./ NON-MEG. .. .0.0 .0. .0 .00 2691. 2683. 2711. 2698. 2725. 2730. 2708. 2746. 2712. 2712. 2645. 2644. 2672. 2666. MANUE G 2634. RESTRICT SPACE AC 102. 79. 95. 95. 53. 98. 100. 91. 694. 681. 731. 763. 794. 736. 867. 772. 951. 618. 614. 660. 647 MANIF .G STPEETS/ HIGHWAYS ACPES 429.0 .. .0 .0 .0 62. 300. 329. 332. 367. EXTENS IV INSTITUT ACR FC 486. MANIJE .G 909 1160 368 00 733. 1350. 141. 2275. 519. 1784. 1185. 188. 188. 734. 188. 841. 959. 188. 188. 188. 188. 188. 188. 188. 188. 188. 686 601 EXTENSIV INDUST'L 1351. 188. 427. 200 ACPES HIGH INCOMF HH'S 33. 931. 781. 1123. 185°. 1198. 50. 1160. 1340. 42. 99. 65. 75. 142. 133. 191. 1037. 815 NET INN/ NON-WEG ACRES 845. 8. 1548. INC HH S 15. 14. 14. 26. 68. 7.5 2738. 2337. 3057. LOWER HY S 2062. 1937. 2271. 2080. 2489. 2402. 1656. 1631. 1869. 1787. 2452 MANUE . G 9. NET IND/ ACRES 1509. 296. 266. 331. 324. 392. 458. 405. 558. 780. 580. 999. 791. 695. 917. 518. 482. 604. 552. 688. 693. 346. MERCTAL ACPES 155. 403 175. 1047. HH S 3106. 2995. 3351. 3186. 3531. 3552. 3192. 3797. 3230. 4112. 2530. 2504. 2865. 2786 4488. 4028. 5739. 4913. 8046. 6152. 12857. 8 954. 13265 1096. 1590. 1960 3253. I NENT TAL NET OFS-.70081 3501. 3384. 3823. 3627. 4090. 2833. 2803. 3219. 3109. 4274. 3762. 4762. 5371. 4322. 6954. 5058. 6973. 5217. 8133. 4244. 3974. 4754. 4317. 5296. 3750. 3774. 3607. NCBEN. 1269. 1406. 6899. 7492. 5322. 7253. 5604. 7950. 7433. 7664. 7130. 8602. 9640. 8156. 8276. 21265. 17913. 23444. 17815. 27733. 15355. 14381. 16715. 15185. 18613. 11964. 11777. 13664. 13360. VACANT (AVATL) 10356. 4919. 2000 HIGH 2010 HIGH 2010 HIGH 2010 HIGH 2020 HIGH 2020 LIW 2010 HIGH 2010 HIGH 2010 HIGH 2020 HIGH 2020 HIGH 2030 HIGH 2031 LCW 2040 HIGH 2050 HIGH 2050 LCW 1980 LOW 1980 LOW 2040 HICH 2050 HICH 2050 LCW 1987 HIGH 1987 LPW 1990 HIGH 1999 LOW 19en LM 2030 LOW PLAN OF US 1040 1960 14

METROPOLIT AN DISTRICT COMMISSION -- WASTEWATER STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2050

| | INDUST./ COMMEP-
NON-MFG. CIAL
EMPLOYMT EMPLOYMT | 3846. 15773.
4044. 22545. | 6865. 23000.
5700. 23000.
6738. 21267.
6019. 19701. | 5907. 19000.
6001. 20400.
5619. 18500.
5481. 20000.
5074. 18000. | 5594. 19761.
5133. 16520.
5631. 19616.
5151. 15596.
5424. 18335.
5000. 15272. | TOTAL ACRES | 10650. | | 100 C | |
|-----------|--|------------------------------|--|--|--|-------------------------------|--------------|-------------------------------------|---|---|
| | VERY WET IN
MANUF'G NOI
EMPLOYMT EM | ••• | ••• | • • • • | | RESTRICT
OPEN
SPACE AC | 3468. | 3473.
3473.
3477. | 3480.
3474.
3482.
3475.
3485. | 3485.
3475.
3485.
3475.
3485.
3475. |
| | WET.
MANUF.G | 1379. | 934.
811.
1055.
899. | 1060.
901.
1060.
898.
1058. | 1011.
602.
956.
396.
935. | STREETS/
HIGHWAYS
ACRES | 1396. | 1483.
1479.
1489. | 1495.
1431.
1498.
1422.
1500. | 1488.
1375.
1451.
1349.
1421. |
| | MANUF G | 14096. | 12000.
12000.
9494.
9580. | 8000.
7000.
7000.
6000. | 4381.
4591.
3041.
2104.
2207. | EXTENSIV
INSTITUT
ACRES | 449. | 449.
449.
449. | 4444 | 449.
449.
449.
449.
449. |
| | HIGH
INCOME
HH'S | 4862. | 4713.
4664.
5989.
3883. | 8403.
3424.
9346.
3189.
10041.
2995. | 10823.
2300.
8600.
7200. | EXTENSIV
INDUST*L
ACRES | 411. | 411. | 411.
411.
411.
411. | 411.
411.
411.
411. |
| | UPPER WIDDLF | 7384. | 7603.
7524.
7968.
7148. | 8111.
6656.
9155.
6240.
8178. | 7802.
4400.
5700.
3900.
4800. | NET INN/
NON-MFG
ACPES | 284. | 427.
409.
420.
431. | 388.
423.
374.
341.
363. | 349.
351.
351.
338. |
| | LOWER WIDDLE | 10940. | 13557.
13349.
15235.
14290. | 16942.
15126.
18362.
15756.
20024. | 21500.
17300.
22062.
16900.
22500.
16500. | MANUF G
ACPES | 429. | 359.
293.
291. | 251.
247.
224.
219.
196. | 150.
111.
101.
84. |
| | LOW
INCOME
HH·S | 3282. | 4208.
4167.
4331.
4212. | 4537.
4309.
4853.
4461.
5152. | \$500.
4800.
6000.
4900.
6200.
5000. | MERCIAL
ACRES | 429. | 622.
626.
575.
536. | 562.
517.
551.
503.
541. | 534.
449.
530.
424.
496.
415. |
| | TOTAL
EMPLOY-
MENT | 35094. | 42799.
41511.
38555.
36198. | 36087.
33808.
34461.
32017.
32539. | 30747.
26846.
29244.
24332.
26797. | NET RES-
IDENTIAL
ACRES | 3310. | 3426.
3438.
3536. | 3613.
3375.
3661.
3403.
3727. | 3702.
3278.
3437.
3164.
3302. |
| | TOTAL
HOUSE-
HOLDS | 26468. | 30082.
29704.
33523.
29533. | 29516.
40716.
29545.
43395. | 45526.
28800.
42362.
27800.
40700. | ACRES | 4191. | 4834.
4828.
4823.
4624. | 4815.
4561.
4810.
4527.
4805. | 4735.
4239.
4430.
4058.
4221.
3893. |
| د٠ | POPULA-
TION | 87409. | 91907.
90773.
102233. | 115641.
90210.
123809.
90500.
131846. | 138539.
88062.
128747.
85362.
123762. | VACANT
(AVAIL)
ACRES | 734. | 0.
10.
249. | 324.
326.
366. | 424.
908.
663.
1095. |
| 75 DUTNCY | | 1960 | MUT 10861
MUT 10861
MUT 10861 | 2000 HIGH
2000 LCW
2010 HIGH
2020 HIGH
2020 HIGH
2020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 LIGH | | 1960
1970 | 1980 HTCH
1990 HTGH
1990 HTGH | 2000 HIGH
2010 HIGH
2010 LIW
2020 HIGH
2020 HIGH
2020 LIW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METRAPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | G. CIAL
HT EMPLOYMT | 374. 1167.
759. 2095. | 1565. 3375.
1565. 3202.
296. 4402.
2037. 3790. | 2087. 4346.
2087. 3909.
10. 4244.
2034. 3570.
95. 4248.
1931. 3457. | 130. 4395.
1968. 3477.
182. 4640.
1990. 3486.
1962. 3576. | TOTAL ACPES | 6605. | | | |
|--------------|--|--------------------------|---|--|---|----------------------------------|----------------|--|---|---|
| | WERY WET INDUST./
MANUF.G NON-WEG.
EMPLOYMT EMPLOYMT | 0. 37 | 0. 1893.
0. 2296.
0. 2296. | 0. 2167.
0. 2110.
0. 203
0. 203 | 0. 2030.
0. 196.
0. 2082.
0. 2085. | RESTRICT
OPEN TOT
SPACE AC | 1895.
1895. | 1920.
1918.
1943.
1939. | 1943.
1939.
1945.
1945.
1945. | 1945.
1940.
1945.
1941.
1945. |
| | MANUF'G MA | 137. | 280.
220.
236.
181. | 214.
178.
213.
177.
213. | 206.
114.
204.
76.
155. | STREETS/ REHIGHWAYS | 635. | 830.
817.
875. | 861.
859.
846.
844. | 845.
823.
847.
824.
846. |
| | MANUF 'G | 1206. | 2518.
2130.
2759.
2275. | 2759.
2291.
1647.
2040. | 1952.
1248.
1803.
1096.
1635. | EXTENSIV
INSTITUT
ACRES | :: | :: :: :: :: :: :: :: :: :: :: :: :: :: | :":":" | ;";";" |
| | HIGH
INCOME
HH'S | 746. | 1575.
1549.
1710.
1651. | 1509.
1524.
1407.
1416.
1272. | 1100.
1000.
1050.
1000.
1000. | EXTENSIV
INDUST*L
ACRES | 110. | 110.
110.
110. | 110.
110.
110.
113. | 110.
110.
110.
110. |
| | UPPER MIDDLE | 1625. | 2582.
2543.
2763. | 2669.
2657.
2558.
2570.
2259. | 1800.
1700.
1700.
1600. | NET IND/ | 46. | 174.
150.
198.
184. | 187.
188.
182.
172. | 175.
176.
179.
179.
176. |
| | LOWER MIDDLE | 2079. | 3223.
3167.
3681.
3516. | 3979.
3776.
4240.
3968.
4447. | 4700.
4450.
4745.
4792.
4792. | NET IND!
MANUFE | 17. | 37.
30.
39. | 39.
33.
23.
30. | 28.
26.
15.
24. |
| | INCOPE
HH'S | 344. | 936.
815.
1044. | 1173.
1086.
1265.
1157.
1346. | 1500.
1550.
1500.
1607.
1600. | WESCIAL
MESCIAL
ACRES | 144. | 332.
402.
371. | 397.
379.
388.
388. | 337.
414.
337.
418. |
| | EMPLOY- | 2884. | 9067.
7117.
9693.
9283. | 9485.
8310.
8859.
7428.
8496. | 8592.
6807.
8729.
6649.
8568. | NET RES- | 1545. | 3747.
2704.
39.25.
2971. | 2913.
2919.
2937.
2911.
2807. | 2781.
2707.
2764.
2720.
2751.
2739. |
| | HOUSE- | 4794. | 8216.
8275.
9197.
8818. | 9330.
9043.
9479.
9112.
9323. | 9100.
8650.
9045.
3750.
9300. | * 15 en * | 1752. | 3301.
3217.
3666. | 3536.
3541.
3541.
3464.
3322. | 3384.
3384.
3351.
3371. |
| ноти | PUPULA- | 18900. | 29849.
29342.
32461. | 32927.
31923.
32463.
31254.
31971. | 30119.
29147.
29073. | VACANT
(AVATL)
ACSES | 2202. | 437.
532.
0.
128. | 144.
174.
139.
235.
297. | 312.
482.
338.
468.
322.
445. |
| אפלטערופם אב | | 1960 | 1980 HIGH
1980 LOW
1980 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2040 HICH
2040 HICH
2040 HICH
2050 HIGH
2050 LIGH | | 1960
1970 | 1980 HICH
1990 HICH
1990 LOW | 2000 HICH
2010 HICH
2010 HICH
2020 HICH
2020 HICH | 2010 HTCH
2040 HTCH
2040 HTCH
2040 HTCH
2050 HTCH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1526. | 3730.
3566.
4681.
4097. | 4899.
4541.
5140.
4544.
5509. | 5805.
4647.
6209.
4716.
6978. | zees. | 94 | 44027
44027 | | |
|------------|------------------------------------|---------|--|---|--|-------------------------------|-------|--|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT F | 384. | 1485.
1227.
1949.
1720. | 2022.
1953.
2137.
2064.
2212. | 2355.
2235.
2498.
2343.
2761. | TOTAL ACPES | 6304 | | 1000 | |
| | VERY WET
MANUF G | | | | | RESTRICT
OPEN
SPACE AC | 1372. | 1404.
1401.
1436.
1429. | 1440.
1440.
1440.
1442.
1441. | 1442.
1448.
1442.
1453.
1442. |
| 1304 | MANUF G | 276. | 350.
275.
334. | 249.
249.
250.
210.
173. | 112.
90.
73.
21.
5. | STREETS/
HIGHWAYS
ACRES | 689. | 840.
828.
900.
877. | 907.
895.
907.
908. | 909.
885.
910.
891.
911. |
| | DRY:
MANUFG
EMPLOYMT | 320. | 1158.
878.
1200. | 1100.
800.
1000.
700.
900. | 605.
395.
398.
257.
281. | EXTENSIV
INSTITUT
ACRES | 7.4. | 74.
74. | 74.
74.
74.
74. | 74:
74:
74:
74:
74: |
| | HIGH
INCOME
HH'S | 1453. | 1932.
1901.
2136.
2063. | 2216.
2146.
2605.
2131.
3321. | 3800.
1900.
3600.
2200.
3500.
2500. | EXTENSIV
INDUST*L
ACRES | 169. | 169.
169.
169. | 169.
169.
169.
169.
169. | 169.
169.
169.
169.
169. |
| | UPPER
MIDDLE
INC HH'S | 1771. | 2441.
2394.
2801.
2685. | 3047.
2901.
3247.
3480.
2996. | 4000.
4300.
4500.
4500. | NET IND/
NON-MFG
ACRES | 45. | 125.
108.
156. | 159.
156.
159.
164.
159. | 161.
175.
161.
182.
163. |
| | LOWER
MI DOLE
INC HH'S | 1693. | 2656.
2603.
3171.
3007. | 3529.
3367.
3788.
3605.
4102. | 4800.
5200.
5200.
5500.
5500. | MANUF G
ACRES | 31. | 68.
58.
58. | 62.
52.
56.
45.
48. | 32.
24.
21.
14.
13. |
| | LOW
T NC OME
HH 'S | 346. | 605.
585.
1006. | 1188.
1057.
1243.
1111.
1272. | 1300.
1300.
1500.
1400.
1500. | NET COM-
MERCIAL
ACRES | 180. | 386.
375.
449. | 457.
440.
458.
440.
458. | 461.
446.
463.
451.
466. |
| | EMPLOY- | 2506. | 6724.
5946.
8164. | 8318.
7543.
8527.
7519.
8793. | 8877.
9178.
17337.
10025. | NET RES-
THENTIAL
ACRES | 1693. | 2579.
2537.
2986.
2891. | 3036.
2994.
3041.
3049.
3047.
2826. | 3056.
2897.
3063.
2960.
3066. |
| | TOTAL
HOUSE-
HOLDS | 5263. | 7634.
7484.
9115.
8656. | 9980.
9470.
10884.
9898.
12175. | 13900.
10400.
14600.
19900.
15000. | •USED•
ACRES | 1948. | 3158.
3078.
3659.
3500. | 3714.
3643.
3714.
3698.
3712. | 3710.
3563.
3709.
3708.
3708. |
| ING | TOTAL
POPULA-
TION | 19259. | 26094.
25585.
30220.
28706. | 33073.
31391.
34968.
31813.
37883. | 43230.
32380.
45400.
33930.
46640. | VACANT
(AVATL)
ACRES | 2052. | 559.
754.
66.
255. | 95.
20.
268. | 0.
185.
0.
110.
28. |
| 77 DEADING | | 1960 | 1980 HICH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LDW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HICH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LCW
2040 HIGH
2040 LCW
2050 HIGH
2050 HIGH |

METPOPOLLITAN NISTPICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPTRIC ACTIVITY ALLOCATIONS 1960 - 2350

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| |
| α |
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| COMMES-
CIAL
FUDLOYUT | 4442. | 5775.
5574.
4702.
3993. | 4500.
4000.
4350.
4200.
4000. | 4134.
3805.
4246.
3648.
4271.
3599. | CPFS | 4045. | | | |
|----------------------------------|--------|--------------------------------------|---|---|--------------------------------|-------|----------------------------------|--|--|
| INDUST./
NON-WEG.
EMPLOYMT | 1106. | 2533.
2103.
2371.
2083. | 2129.
2072.
2040.
2013.
1834. | 1962.
1905.
1927.
1937.
1959. | TOTAL ACRES | 0, | | | |
| VERY WET MANUF G | | 2.
0. | | | P FSTP ICT
OPEN
SPACE AC | 1145. | 1148.
1147.
1150. | 1150.
1148.
1151.
1148.
1151. | 1151.
1148.
1151.
1148.
1151. |
| MANUE'S | 155. | 257.
223.
348.
300. | 352.
350.
297.
341. | 346.
186.
349.
168.
284. | STREETS/
HIGHWAYS
ACRES | 748. | 817.
813.
811. | 806.
804.
794.
793. | 787.
786.
779.
785. |
| * DPY * MANUF * G | 295. | 250.
250.
0. | | 200. | EXTENSIV
INSTITUT
ACPES | •• | | • • • • | |
| HI SH
INCOME
HH'S | 1541. | 1941.
1916.
2048.
2000. | 2097.
2020.
2110.
1987.
2021. | 1700.
1500.
1500.
1400.
1346. | EXTENSIV
TND 15T L
ACRES | 124. | 124.
124.
124.
124. | 124.
124.
124.
124.
124. | 124.
124.
124.
124.
124. |
| UPPER
MIDDLE
INC HH'S | 3308. | 3251.
3218.
3242.
3166. | 3097.
2988.
2921.
2787.
2540. | 1900.
1700.
1700.
1500. | NET IND/
NON-MEG
ACP EC | 118. | 227.
199.
216.
198. | 194.
197.
186.
191.
167. | 169.
173.
175.
175. |
| LOWER WIDELF | 5822. | 6798.
6615.
7107.
6875. | 7433.
7098.
7756.
7289.
7994. | 8105.
7750.
8119.
7900.
8154. | WANUE .G
ACRES | 11. | 12.
12.
9. 7. | | 8 |
| SACONI
HHIO | 1711. | 2503.
2475.
2496.
2431. | 2534.
2433.
2610.
2465.
2658. | 2800.
2600.
2800.
2700.
2965. | NET COM-
MERCIAL
ACRES | 194. | 252.
243.
214.
1188. | 205.
188.
198.
191.
188. | 188.
179.
106.
172.
197. |
| TOTAL
EMPL NY- | 5998. | 9817.
8152.
7420.
6376. | 6373.
6740.
6309.
6375. | 6342.
5897.
671.
6714. | NET BES-
IDENTIAL
ACRES | 1136. | 1386.
1365.
1427.
1386. | 1434.
1379.
1450.
1371.
1394. | 1344.
1298.
1309.
1286.
1286. |
| TOTAL
HOUSE- | 11846. | 14404.
14224.
14892.
14472. | 15162.
14539.
15397.
14528.
15213. | 14500.
13700.
14119.
13700.
13865. | MOSES ACRES | 1469. | 1877.
1819.
1866.
1779. | 1942.
1772.
1842.
1757.
1761. | 1710.
1651.
1587.
1646.
1670. |
| TOTAL
PROULA-
TION | 40040. | 44908.
44441.
46513.
45210. | 47349.
45417.
48076.
45986.
42363. | 47846.
41446.
42702.
41446.
41942.
41146. | VACANT
(AVATL)
ACRES | 569. | 79.
143.
96.
197. | 124.
206.
125.
222.
217. | 342.
299.
316.
316. |
| | 1940 | 1980 HIGH
1980 LCW
1990 HIGH | 2000 UICH
2010 UTCH
2010 UTCH
2020 UTCH
2020 UTCH | 2030 HIGH
2030 LIN
2040 LIN
2050 HIGH
2050 HIGH
2050 LIN | | 1940 | 401 0861
1980 H2H
1961 H2H | 2000 HICH
2000 LOW
2010 HIGH
2020 HICH
2020 HICH
2020 LOW | 2030 HIGH
2040 HIGH
2040 I ICH
2050 I ICH
2050 I ICH |

METERPOLITAN DISTRICT COMMISSION--WASTEMATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1298. | 5302.
5004.
6500.
6500. | 6756.
7026.
7467.
7361.
8127. | 8987.
0395.
8805.
1369. | | | 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . | | |
|----------|----------------------------------|--------|--|---|---|-------------------------------|--------------|---|---|--|
| | 0.24 | 22 | | | | ACRES | 6470. | | | |
| | INDUST./
NON-MFG.
EMPLOYMT | 195. | 1588.
1306.
2510.
2193. | 2548.
2419
2731.
2658
2801.
2763 | 3025.
3007.
3324.
3563.
3535. | TOTAL | • | | | |
| | VERY WET MANUF 6 PEMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 524.
524. | 537.
536.
560.
555. | 563.
556.
567.
567.
557. | 567.
556.
567.
556.
567. |
| | MET.
MANUE G
EMPLOYMT | 373. | 430.
371.
372.
315. | 320.
259.
280.
215.
238.
168. | 191.
165.
145.
94. | STREETS/
HIGHWAYS
ACRES | 334. | 447.
436.
505. | 609.
626.
636.
630. | 629.
592.
646.
595.
664. |
| | *DRY * MANUF * G | 1100. | 800.
800.
1114.
981. | 1109.
993.
1127.
1009.
1146. | 1209.
1078.
1245.
1105.
2117.
870. | EXTENSIV
INSTITUT
ACPES | 1223. | 1223.
1223.
1223.
1223. | 1223.
1223.
1223.
1223.
1223. | 1223.
1223.
1223.
1223.
1223. |
| | HIGH
INCOME
HH • S | 463. | 649.
634.
766. | 825.
780.
852.
793.
833. | 678.
501.
544.
458. | EXTENSIV
INDUST*L
ACRES | 133. | 133.
133.
133. | 133.
133.
133.
133.
133. | 133.
133.
133.
133.
133. |
| | UPPER
MIDDLE
INC HH'S | 909. | 1126.
1110.
1210.
1171. | 1175.
1131.
1098.
1054.
931. | 950.
950.
750.
968. | NET IND/
NON-MFG
ACRES | 29. | 128.
110.
190.
169. | 192.
184.
205.
200.
209. | 224.
223.
244.
242.
260.
258. |
| | LOWER MY DOLF | 1759. | 2326.
2291.
2590.
2482. | 2768.
2614.
2919.
2709.
3031. | 2921.
2476.
2925.
2278.
2926. | MET TVD/
MANUF'G
ACRES | 34. | 33.
32.
40.
35. | 39.
38.
38.
38. | 38.
38.
32.
60. |
| | I NC UME | 441. | 583.
570.
741.
693. | 836.
774.
906.
829.
963. | 969.
846.
1000.
843.
1063. | NET COM-
MERCIAL
ACRES | 110. | 407.
387.
486. | 504.
522.
551.
544.
595. | 652.
594.
746.
640.
811. |
| | EMPLOY- | 2746. | 8120.
7481.
10496.
9988. | 10734.
10697.
11605.
11243.
12313. | 13411.
12312.
15109.
13278.
17143. | NET RES-
IDENTIAL
ACRES | 1096. | 1499.
1475.
1782.
1710. | 1819.
1724.
1873.
1732.
1807. | 1619.
1358.
1551.
1232.
1516. |
| | TOTAL
HOUSE-
HOL PS | 3572. | 4684.
4605.
5307.
5080. | 5299.
5299.
5776.
5385.
5758. | 5518.
4623.
5418.
4273.
5415. | .USED. | 1269. | 2068.
2003.
2498.
2401. | 2554.
2463.
2667.
2509.
2649. | 2533.
2208.
2580.
2147.
2647.
2116. |
| ROCKLAND | TOTAL
POPULA-
TION | 13119. | 17195.
16912.
18907.
18111. | 19946.
18378.
19969.
18641.
19908. | 15542.
15588.
18213.
14432.
17659. | VACANT
(AVATL)
ACRES | 2988. | 2063.
2140.
1552.
1667. | 1389.
1496.
1255.
1440.
1269. | 1386.
1322.
1817.
1837. |
| 79 ROCK | | 1960 | 1980 HIGH
1980 LCW
1900 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LCW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 0761 | 1980 LOW
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTGH
2030 LOW
2040 HTGH
2050 HTGH
2050 HTGH |

METROPOLITAN DISTAICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CTAL
FMPLOYMT | 527.
893. | 1500.
1500.
2000.
2000. | 2268.
2405.
2623.
2597.
3078. | 3291.
2977.
3634.
3108.
3777. | ACPES | 4531. | 40,000°C | | |
|-------------|----------------------------------|--------------|--|---|---|-------------------------------|------------|--|--|---|
| | INDUST./
NON-MEG.
EMPLOYMT | 106. | 500.
500.
1026.
974. | 1082.
1118.
1171.
1222.
1242. | 1293.
1355.
1362.
1412.
1388. | TOTAL AC | 45 | | | |
| | VERY WET
MANUF'S
FMPLOYMT | :: | | | • • • • | RESTRICT
OPEN
SPACE AC | 726. | 739.
738.
756. | 765.
779.
789. | 789.
799.
782.
813. |
| | MANUF.G | 19. | 36.
32.
56. | 62.
47.
61.
46.
58. | 60°.
60°.
43°. | STPEFTS/
HIGHWAYS
ACRES | 140. | 209.
207.
255.
250. | 275.
271.
306.
294.
331. | 336.
299.
360.
389.
389. |
| | MANUF G | 151. | 308.
211.
427.
278. | 213.
139.
222.
149.
235. | 252.
179.
257.
188.
515. | EXTENSIV
INSTITUT
ACPES | •• | • • • | | |
| | HIGH
INCOME
HH'S | 246. | 607.
588.
860.
810. | 1068.
985.
1256.
1108.
1448. | 1709.
1362.
1877.
1421.
2248.
1665. | EXTENSIV
INDUST'L
ACRES | 30. | 30.
30.
30. | 30.
30.
30.
30. | 30.
30.
30.
30. |
| | MIDDLE
INC HH'S | 326. | 665.
646.
934.
872. | 1171.
1068.
1398.
1226.
1612. | 1833.
1543.
2035.
1563.
2264. | NET IND/
NON-WEG
ACRES | 3. | 27.
27.
62. | 66.
68.
71.
75. | 80.
84.
84.
87. |
| | LOWER MIDDLE | 706. | 1182.
1160.
1435.
1355. | 1651.
1535.
1867.
1693.
2092. | 2280.
1933.
2542.
1992.
2821.
2031. | MANUF'S | | 13.
11.
17. | 10. | 11.7.118.7.18.7. |
| | INCOME
HHIS | 379. | 424.
416.
480. | 593.
471.
539.
497.
581. | 586.
515.
628.
517.
680. | NET COM-
MERCIAL
ACPES | 54.
91. | 131.
131.
165. | 183.
192.
204.
237. | 251.
276.
274.
239. |
| | EMPL OY- | 903. | 2345.
2243.
3509.
3797. | 3625.
4077.
4013.
4613.
4423. | 4896.
4511.
5312.
4708.
5723. | NET BES-
INFNTIAL
ACRES | 769. | 1156.
1143.
1443.
1404. | 15c7.
1538.
1921.
1716.
1988. | 1995.
1702.
2163.
1737.
2396. |
| | HOUSE-
HOLDS | 1657. | 2878.
2810.
3779. | 4303.
4059.
5050.
4523.
5734. | 5454.
5354.
7082.
5494.
8012. | ACPEC | 173. | 1329.
1312.
1687.
1640. | 1955.
1805.
2109.
2312.
23153. | 2336.
2027.
2532.
2070.
2783. |
| Talle | TOTAL
POPJLA-
TION | 4616. | 7278.
7107.
9355.
8818. | 11065.
10231.
12707.
11391.
14417. | 15101.
13467.
17787.
12817.
20114. | VACANT
(AVAIL)
ACPES | 2961. | 2225.
2243.
1832.
1857. | 1635.
1663.
1307.
1431.
1049. | 1040.
1390.
809.
1343.
515. |
| Se enckenpt | | 1940 | 1980 HIGH
1980 LOW
1900 HIGH
1900 LOW | 2000 HIGH
2000 LIW
2010 HIGH
2010 LIW
2020 HIGH
2020 LIW | 2010 HICH
2010 LTW
2040 HICH
2040 LTW
2050 HICH | | 1940 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 LOW
2010 LICH
2010 LICH
2011 LOW
2020 LICH
2020 LICH | WO 1 0 100 C MO 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 |

METROPOLITAN DISTPICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMER-
CIAL
EMPLOYMT | 7276. | 9655.
9447.
9254.
8588. | 9000.
8200.
8750.
7850.
8661. | 9247.
9247.
9247.
9508. | CRES | 5235. | | | |
|----------|----------------------------------|--------|--|---|--|--------------------------------|-------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 2052. | 4956.
4111.
4850.
4347. | 4114.
4092.
3851.
3850.
3560. | 3523.
3602.
3602.
3508.
3620. | TOTAL ACRES | 52 | Section 1 | | |
| | VERY WET MANUF'S EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 2240. | 2240.
2240.
2240.
2240. | 2240.
2240.
2240.
2240.
2240. | 2240.
2240.
2240.
2240.
2240. |
| | MANIF G | 2045. | 1874.
1485.
1798.
1407. | 1621.
1231.
1434.
1051.
1238. | 1088.
565.
915.
370.
804. | STPEETS/
HIGHWAYS
ACRES | 450. | 780.
768.
770. | 761.
745.
756.
747. | 741.
717.
741.
740.
711. |
| | *DRY * MANUF *G | 4420. | 2774.
1683.
2332.
1365. | 2200.
1300.
2100.
1300.
2000. | 1800.
1200.
1600.
1100.
1500. | EXTENSIV
INSTITUT
ACRES | 21. | 21.
21.
21.
21. | 21.
21.
21.
21.
21. | 21.
21.
21.
21.
21. |
| | HIGH
INCOME
HH'S | 1511. | 1503.
1490.
1321.
1319. | 1185.
1205.
1118.
1147.
1057. | 900.
800.
750. | EXTENSIV
INDUST'L
ACRES | 204. | 204.
204.
204. | 204.
204.
204.
204. | 204.
204.
204.
204.
204. |
| | UPPER
MIDDLE
INC HH'S | 2833. | 2560.
2544.
2033.
2053. | 1735.
1766.
1568.
1628.
1431. | 1200.
1200.
1100.
1100.
1000. | NET IND/
NON-MFG
ACRES | 34. | 109.
85.
107. | 91.
85.
81.
78. | 78.
80.
74.
80. |
| | LOWFR
MIDDLE
INC HH'S | 5394. | 7047.
6959.
7313. | 7321.
6964.
7324.
6843.
7092. | 6500.
5700.
6200.
5600.
6000. | NET IND/
MANUF'G
ACPES | 100. | 72.
49.
64. | 59.
55.
50.
50. | 45.
39.
36. |
| | TOOME | 2726. | 2414.
2391.
2487.
2421. | 2510.
2392.
2532.
2368.
2502. | 2309.
2000.
2180.
1900.
2083. | NET COM-
MERCIAL
ACRES | 255. | 338.
330.
324. | 315.
287.
306.
275.
303. | 306.
252.
339.
250.
356. |
| | TOTAL
FMPLOY- | 15793. | 19259.
16727.
18234.
15707. | 16935.
14823.
16135.
14037.
15458. | 15184.
12492.
15363.
12127.
15432.
12052. | NET RES-
TOENT TAL
ACPES | 1031. | 1017.
1001.
974.
938. | 942.
883.
929.
859.
877. | 822.
774.
701.
741. |
| | TOTAL
HOUSE-
HOLDS | 12464. | 13524.
13384.
13154.
12893. | 12327.
12327.
12542.
11985.
12082. | 10909.
9800.
10280.
9400.
9833. | MSED!
ACRES | 1419. | 1536.
1465.
1468.
1373. | 1406.
1300.
1374.
1250.
1308. | 1250.
1090.
1232.
1054.
1213.
1038. |
| | TOTAL
POPULA-
TION | 39210. | 40485.
40377.
39409.
38626. | 34242.
37012.
37537.
36022.
36300. | 29684.
29684.
31076.
28524.
29783. | (AVATL)
ACRES | 902. | 455.
538.
532.
643. | 694.
726.
641.
783.
715. | 780.
964.
798.
1005.
818. |
| 81 SALEM | | 1960 | 1980 HIGH
1980 LPW
1990 HIGH
1990 LPW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LÜW
1990 HIGH
1990 LÜW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LCW
2010 LCW
2020 LCW
2020 LCW | 2030 HIGH
2020 LIW
2040 HIGH
2050 HIGH
2050 LEW
2050 LEW |

METROBOL IT AN DISTO ICT COMMISSION -- WASTEWATED STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2950

| FG. CIAL | 317. 2173.
550. 5516. | 1000. 7782.
1000. 7435.
2144. 9624.
2007. 8439 | 2327. 9828.
2337. 9854.
2633. 10349.
2673. 8931.
2797. 10893. | 3194. 11992.
3194. 9458
3642. 13329.
3524. 9948
3939. 14091.
3739. 10835 | TOTAL ACRES | 7411. | | | N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
|-------------------------------|--------------------------|---|---|---|--------------------------------|------------|------------------------------------|---|--|
| NON-MEG. | | 1. 21 | | 36 36 | | | . 25. | | .00.00 |
| MANIJE . G | 66 | | | | PESTRICT
DPEN
SPACE AC | 2647. | 2656.
2655.
2662. | 2662.
2662.
2662.
2660.
2660. | 2662.
2660.
2664.
2660. |
| MANIF G | 10. | 85.
73.
290. | 209.
169.
205.
153.
190. | 198.
86.
201.
191. | STREETS/
HIGHWAYS
ACRES | 514. | 634.
625.
676. | 673.
649.
672.
647.
665. | 676 -
628 -
702 - |
| MANJE G
EMPLOYMT | 437. | 1306.
882.
1378. | 1377.
928.
1303.
849.
1189. | 1164.
730.
1088.
651.
904. | EXTENSIV
INSTITUT
ACPES | •• | • • • | | |
| INCOME
HH*S | 977. | 1292.
1272.
1361.
1314. | 1301.
1227.
1158.
1097.
978. | 800.
900.
900.
800.
500. | EXTENSIV
INDUST L
ACRES | 888
.88 | 88.88
88.88 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 38 88 . |
| MIDDLE
INC HH'S | 1908. | 2211.
2184.
2242.
2182. | 2020.
1962.
1738.
1734.
1421.
1505. | 1200.
1000.
1400.
1100.
1500. | NET TND/ ENDN-NEG I | 85. | 160.
160.
193.
189. | 198.
199.
207.
208.
211. | 223.
223.
235.
235. |
| MI DULE | 2503. | 3497.
3440.
3914. | 4185.
3935.
4388.
4057.
4509. | 4500.
4100.
4500.
4500.
4200. | NET TND/ P
MANUF G
ACPES | 27. | 56.
43.
61. | 61.
58.
43.
53. | 53.
50.
32. |
| INCOME
HH S | 443. | 1970.
1938.
1257.
1183. | 1377.
1283.
1472.
1350.
1542. | 1600.
150.
1550.
1700.
1500. | NET COM-
MERCIAL
ACRES | 108. | 386.
369.
479.
419. | 489.
440.
515.
542.
453. | 501.
470.
688. |
| EMPLOY- | 2967. | 10174.
9391.
13347.
11528. | 13741.
12319.
14491.
12606.
15069. | 16458.
13469.
18260.
14202.
19125. | NET BES-
INENTIAL
ACPES | 1381. | 1921.
1896.
2066. | 2013.
1905.
1944.
1805.
1832.
1654. | 1821.
1634.
1863. |
| אווער - אווער - אווער - אווער | 5851. | 9771.
8774. | 8431.
8431.
8766.
8238.
8450. | 8133.
7200.
8350.
7300.
8500. | * USED * | 1401. | 2523.
2468.
2798.
2653. | 2760.
2592.
2724.
2500.
2539. | 2689.
2362.
2836.
2417. |
| P. AL | 25124. | 28342.
27860.
29225.
28714. | 30296.
28479.
29021.
27278.
27978. | 26824.
23854.
26914.
23454.
27294. | VACANT
(AV1TL)
ACPES | 2562. | 1510.
1575.
1186.
1357. | 1227.
1423.
1265.
1524.
1357. | 1296.
1574.
1121.
1609. |
| | 0.61 | 1080 HICH
1900 HICH
1900 HICH | 2000 HIGH
2000 LOW
2017 HIGH
2017 LOW
2020 HIGH | 2030 HTGH
2040 HTGH
2040 HTGH
2040 LTW
2050 HTGH | | 1940 | 1980 HICH
1980 LCW
1900 HICH | 2000 HTCH
2010 HTCH
2010 HTCH
2010 HTCH
2020 HTCH | 2010 HIGH
2030 LOW
2040 HIGH
2040 LOW |

METROPOLITAN NISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1004. | 2785.
2631.
3200. | 3671.
3926.
4360.
4329.
5431. | 5922.
5334.
6626.
5690.
6928. | ACPES | 10925. | | Fred Pool | |
|----------|-----------------------------------|---------------|--|--|--|-------------------------------|--------|--|---|---|
| | INDUST./
NON-MFG.
EMPL NYMT | 251. | 500.
500.
1120.
1042. | 1261.
1343.
1481.
1597.
1710. | 2041.
2041.
2058.
2221.
2156.
2330. | TOTAL | 10 | | | |
| | VERY WET
MANUF'G
EMPLOYMT | •• | ; ; ° | | | RESTRICT
OPEN
SPACE AC | 2766. | 2841.
2836.
2882.
2874. | 2898.
2888.
2914.
2925.
2925. | 2925.
2908.
2933.
2910.
2942.
2912. |
| | MANUF G | 12. | | | | STREETS/
HIGHWAYS
ACRES | 685. | 992.
981.
1053.
1040. | 1094.
1084.
1122.
1105.
1151. | 1158.
1176.
1176.
1113.
1189. |
| | . DRY!
MANUF'G
EMPLOYMT | 15. | 500.
500.
1000. | 994.
1014.
1009.
1026.
1068. | 1072.
1060.
1072.
1031.
813. | EXTENSIV
INSTITUT
ACRES | :: | : 1 : 1 | | , ¹ , ¹ , ¹ |
| | HIGH
INCOME
HH'S | 884.
1263. | 1445.
1419.
1625.
1566. | 1776.
1679.
1928.
1765.
2079. | 2233.
1874.
2351.
1912.
2589. | EXTENSIV
INDUST*L
ACRES | .09 | 60.
50. | .09 | 60°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°° |
| | UPPER
WIJDLF
INC HH'S | 819. | 1708.
1674.
2002.
1913. | 2263.
2116.
2507.
2778.
2742. | 2907.
2512.
3053.
2523.
3000.
2552. | NET IND/
NON-MFG
ACR ES | 41. | 54.
54.
96. | 105.
110.
120.
127.
135. | 146.
157.
158.
169.
165. |
| | LOWER MIDDLE | 1081. | 1751.
1714.
1907.
1872. | 2155.
2094.
2455.
2316.
2776. | 3152.
2300.
3508.
2000.
3862.
1923. | NET IND/
MANUFIG
ACRES | 0 | 6.
13.
13. | 13.
14.
14.
14.
15. | 15.
14.
15.
11. |
| | LOW
INCOME
HH'S | 322. | 653.
645.
766. | 918.
776.
858.
807.
918. | 920.
837.
968.
839.
1048. | NET COM-
MERCIAL
ACRES | 177. | 358.
348.
386. | 417.
434.
463.
535. | 567.
528.
614.
552.
635. |
| | EMPLOY- | 1282. | 3785.
3631.
5320.
5242. | 5927.
6283.
6950.
6952.
8208. | 8435.
9757.
9842.
9897. | NET RESTIDENT TAL | 2419. | 4809.
4730.
5269. | 5448.
5309.
5621.
5442.
5746. | 5727.
5186.
5810.
5203.
5912. |
| | TOTAL
HOUSE-
HOLDS | 3106. | 5556.
5452.
6299.
6085. | 7012.
6664.
7747.
7166.
8515. | 9212.
7523.
9881.
7273.
10498. | ACRES | 2638. | 5228.
5138.
5764.
5647. | 5984.
5867.
6218.
6044.
6430. | 6455.
5885.
5597.
5938.
6723. |
| SCITUATE | POTAL
POPULA-
TION | 11214. | 18958.
18505.
21486.
20755. | 23910.
22727.
26409.
24432.
29020.
25910. | 31389.
25647.
33662.
24797.
35762. | VACANT
(AVAIL)
ACRES | 4776. | 1803.
1909.
1164.
1302. | 887.
1024.
610.
815.
357. | 326.
965.
157.
903.
10.
820. |
| A3 SCIT | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2010 HIGH
2010 LCW
2020 HIGH
2020 HIGH
2020 LCW | 2030 HIGH
2030 LNW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LTW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTGH
2030 LNW
2040 HTGH
2040 LCW
2050 HTGH
2050 LCW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1989 - 2050

| + 5 1 | TOTAL
HOUSE- | FMP L NY- | INCOME | MI DOLE | MIDDLE
MINC HHIS | HIGH | MANUF'G | MANUE .G | VERY WET
MANUF 'G | INDUST./
NON-MFG. | COMMER-
CIAL
EMPLOYMT |
|--|-----------------|--|--------------------------------------|---|---|--|-------------------------------|---|---|---|--|
| 2593. | | 2013. | 123. | 741. | 800. | | 91. | 14. | • • • | 154. | 605. |
| 4305.
4210.
5435.
5113. | | 2950.
2707.
3855.
3352. | 251.
247.
310. | 1246.
1217.
1650.
1533. | 1398.
1365.
1783.
1685. | 1411.
1381.
1691.
1620. | 300. | 227.
196.
478.
402. | • | 828.
685.
1037. | 1595.
1526.
2140.
1834. |
| 6567.
6535.
7809.
6920.
9181. | | 5461.
5523.
8573.
7829.
11861. | 405.
342.
541.
710.
560. | 2046.
1869.
2480.
2193.
2965. | 2181.
2008.
2602.
2310.
3056. | 1935.
1816.
2186.
1973.
2450.
2119. | 100.
100.
50.
0. | 512.
416.
499.
392.
451. | | 1429.
1549.
2230.
2390.
2906. | 3420.
3458.
5794.
4997.
8504. |
| 12438.
9159.
12438.
9458.
14269. | | 15374.
12396.
19869.
15222.
24141.
19491. | 960.
1135.
1284. | 3627.
2998.
4256.
3172.
4916. | 3573.
3036.
3995.
4470. | 2794.
2302.
3052.
2423.
3600. | | 474.
214.
481.
196.
528. | | 3857.
4897.
4879.
5980. | 11043.
8228.
14492.
10147.
17633. |
| None 1 | 7 - | NFT RES- N
IPENTIAL
ACRES | MERCIAL
ACRES | MET IND!
MANIJE G
ACRES | WET IND/ | INDUST .L | EXTENSIV
INSTITUT
ACRES | STPEFTS/
HIGHWAYS
ACRES | RESTRICT
NOEN
SPACE AC | TOTAL ACPE | ACOES |
| 2071. | | 1281. | 227. | 558. | 10. | 196. | •• | 636. | 1590. | 15 | 15558. |
| 5331.
5279.
5906. | | 2252.
2215.
2771.
2672. | 463.
459.
500.
479. | 2576.
2575.
2580.
2578. | 41.
31.
55. | 196.
196.
196.
196. | | 1026.
1019.
1089. | 1636.
1633
1692.
1674 | | . 1500
1500
1500
1500
1500
1500
1500
1500 |
| 6155.
5907.
5576.
6123.
6784. | | 3160.
3610.
3396.
3963.
3963. | 585.
587.
743.
690.
924. | 2329.
2209.
2089.
1891.
1717. | 81.
89.
134.
145.
179. | 196.
196.
196.
195.
196. | | 1200.
1164.
1235.
1166.
1237. | 1717.
1705.
1758.
1739.
1790. | | 12 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) |
| 7111.
5589.
7707.
5851.
8357. | | 4058.
3419.
4355.
4721.
3732. | 1093.
1323.
1033.
1533. | 1717.
916.
1718.
1719.
827. | 241.
249.
312.
311.
384. | 196.
196.
196.
196.
196. | | 1292.
1049.
1375.
1091. | . 1798.
1711
1771
1858. | | |

METROPOLITAN DISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYNT | 130. | 252.
240.
354. | 1093.
1211.
2469.
2108.
3995. | 5914.
4181.
8551.
5667.
10693. | ACRES | 9850. | | | |
|-------------|----------------------------------|-------|--|--|---|-------------------------------|-------|--|---|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 55. | 133.
110.
168. | 392.
485.
831.
937.
1194. | 1828.
1850.
2555.
2482.
3250. | TOTAL A | 8 | | | |
| | VERY WET IN MANUF 'G N | •• | | •••• | •••• | RESTRICT
OPEN
SPACE AC | 908. | 938.
937.
1013.
1005. | 1042.
1030.
1080.
1063.
1099. | 1103.
1078.
1123.
1083.
1148. |
| | MANUF G | 73. | 211.
182.
200.
200. | 217.
206.
211.
197.
192. | 199.
115.
200.
95.
156. | STPEETS/
HIGHWAYS
ACRES | 175. | 318.
314.
414. | 536.
522.
603.
577.
649. | 688
610
753
643
816
689 |
| | MANUF G | 20. | | | 18.
42.
42.
200.
200. | EXTENSIV
INSTITUT
ACPES | •• | | | |
| | HIGH
INCOME
HH'S | 182. | 705.
678.
1001. | 1231.
1138.
1426.
1271.
1609. | 1763.
1441.
1899.
1494.
2180.
1709. | EXTENSIV INDUST*L ACRES | 355. | 355.
355.
355.
355. | 355.
355.
355.
355.
355. | 355.
355.
355.
355.
355. |
| | UPPER
MIDDLF
INC HH'S | 118. | 393.
381.
551.
514. | 724.
659.
910.
796.
1110. | 1323.
1102.
1510.
1124.
1714. | NET IND! E
NON-MEG 1 | 5. | 12.
10.
14. | 35.
58.
65.
83. | 125.
173.
173.
220.
209. |
| | LOWER
MI DOLE
INC HH'S | 141. | 317.
306.
514.
453. | 707.
613.
914.
766.
1144. | 1442.
1121.
1735.
1198.
2038. | MET IND!
MANUF G
ACRES | 29. | 21.
20.
20.
21. | 21.
20.
20.
18. | 19.
20.
23. |
| | LOW
I NC OME
HH • S | 50. | 53.
52.
90.
81. | 191.
141.
291.
220.
406. | 580.
455.
718.
464.
847. | NET COM-
MERCIAL
ACRES | 103. | 135.
134.
142.
138. | 191.
283.
259.
385. | 513.
397.
688.
496.
831. |
| | EMPL NY- | 243. | 596.
532.
723.
634. | 1702.
1902.
3512.
3241.
5381.
4629. | 7958.
6160.
11347.
8273.
14299. | NET RES-
IDENTIAL
ACRES | 601. | 1820.
1788.
2757.
2643. | 3118.
2953.
3594.
3834.
3834. | 3884.
3277.
4136.
3331.
4441. |
| | TOTAL
HOUSE-
HOLDS | 492. | 1468.
1417.
2157.
1989. | 2853.
2550.
3541.
3054.
4269. | 5107.
4120.
5863.
4280.
6780. | ·USE7. | 739. | 1989.
1953.
2934.
2814. | 3359.
3209.
3955.
3707.
4323. | \$540.
3814.
5017.
4009.
5515. |
| RORN | POPULA-
TION | 1806. | 5431.
5242.
7979. | 10557.
9436.
12747.
10994.
15367. | 18384.
14831.
20520.
14980.
23728.
16124. | VACANT
(AVATL)
ACRES | 7674. | 6250.
6291.
5135. | 4559.
4735.
3857.
4149.
3427. | 3165.
3993.
2603.
3762.
2017. |
| NaOBasHS 58 | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 LCW | 2030 HIGH
2030 LCM
2040 HIGH
2050 LCM
2050 HIGH
2050 LCM | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LUW
2010 HIGH
2010 LUW
2020 HIGH
2020 LUW | 2030 LCW
2030 LCW
2042 HTGH
2050 LCW
2050 HTGH
2050 LCW |

MET POPULIT AN DISTRICT COMMISSION -- WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMER-
CIAL
ENDLOYMT | 11247. | 11124.
10652.
8560.
7102. | 6700.
6700.
7500.
6350.
7000. | 7000.
5000.
7000.
7000. | Sia | 7. | | | |
|------------|------------------------------------|--------|--------------------------------------|---|---|-----------------------------------|-------|--|---|--|
| | INDUST./
VON-4FG.
EMPLOYMT F | 4535. | 7685.
6385.
7097.
6243. | 6800.
6150.
6500.
6200.
6000. | 6200.
5200.
6200.
6200. | TOTAL ACPES | 2637. | | | |
| | VEDY WET I | 83. | | | | RESTRICT
OPEN
SPACE AC | 155. | 155.
155.
155.
155. | 155.
155.
155.
155.
157. | 157.
157.
157.
155.
157. |
| | MET. V
MANUE'S
EMPLOYMT E | 1724. | 1078.
836.
850.
850. | 620.
718.
615.
706. | 617.
468.
619.
304.
611. | STREETS/ R
HIGHWAYS
ACRES S | 538. | 554.
531.
529.
505. | 522.
498.
517.
492.
512. | 511.
485.
508.
508.
508. |
| | MANIF G | 3440. | 2856.
2329.
2254.
1686. | 1302.
961.
731.
527.
389. | 900.
605.
605.
511. | EXTENSIV S
INSTITUT H
ACRES | • • • | | | |
| | HIGH
INCOME
HH'S | 3417. | 1989.
2037.
1053.
1186. | 681.
778.
541.
617.
443. | 430.
420.
420.
410. | EXTENSIV EINDUSTIL I | 262. | 262.
262.
262.
262. | 262.
262.
262.
262.
262.
262. | 262.
262.
262.
262.
262. |
| | MIDDER NI STATE | 6571. | 1893.
1880.
1140. | 806.
901.
679.
750.
587. | 500.
500.
500.
500. | NET IND/ ENON-MEG I | 116. | 318.
232.
294.
227. | 282.
223.
269.
220.
257. | 257.
218.
257.
218.
257. |
| | LOWER NT DOLE | 13087. | 14357.
14204.
14510.
14423. | 14812.
14307.
15104.
14189.
15461. | 15500.
12500.
15000.
15000.
14000. | MANUE GACRES | 99. | 67.
53.
52. | 32.
23.
17. | 15.
12.
11.
11. |
| | INCOVE
HHIS | 5248. | 6410.
6301.
6922.
6630. | 7248.
6788.
7472.
6755.
7692.
5704. | 7970.
6800.
7900.
7900. | MERCIAL
ACRES | 265. | 262.
251.
202.
168. | 189.
158.
177.
150.
165. | 165.
142.
165.
162.
165. |
| | TOTAL
FMDL OY- | 21029. | 22742.
29291.
18751. | 16722.
14529.
15346.
13633.
14201. | 14717.
13368.
14424.
1290°.
14322.
12703. | NET 9 ES- 1
IDENTIAL
AC9 ES | 957. | 830.
820.
778. | 793.
748.
912.
728.
926. | 915.
707.
796.
795. |
| | HOUSE- | 29323. | 24679.
24422.
23624.
23466. | 23548.
22775.
23797.
22311.
24184. | 24330.
21100.
23923.
21200.
23813. | .USED. | 1427. | 1477.
1356.
1325.
1201. | 1296.
1157.
1281.
1119.
1265. | 1252.
1977.
1231.
1076.
1228. |
| SUMEDVILLE | POPULA-
TION | 94697. | 75814.
75161.
70406.
69948. | 70184.
67943.
70909.
65597.
72028. | 72453.
63086.
70974.
63376.
70945. | VACANT
(AVAIL)
ACRES | 255. | 188.
333.
355.
511. | 491.
565.
421.
610.
440.
656. | 657.
479.
659.
482.
642. |
| SA SOMED | | 1960 | 1080 High
1080 High
1080 High | 2000 HICH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2021 LOW | 2070 HTGH
2040 HTGH
2040 HTGH
2050 HTGH
2050 HTGH | | 1940 | 1980 HIGH
1980 t OW
1990 HIGH
1900 L OW | 2000 HIGH
2000 LOW
2010 HYCH
2010 LOW
2020 HIGH | 2030 JIGH
2010 I IW
2040 JIGH
2040 I IW
2050 JIGH
2157 I IW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 211. | 835.
5. 810.
1090.
5. 945. | 3. 1768.
3. 1768.
3. 2579.
4832.
3. 3792. | 6536.
4659.
8783.
5 5804.
10497. | ACRES | 9869. | | | COMPANY OF THE PROPERTY OF THE |
|----------------|-----------------------------------|--------------|--|---|--|--------------------------------|-------|--|---|--|
| | INDUST ./
NON-MFG.
EMPLOYMT | 210. | 560.
465
638.
566 | 829.
873.
1239.
1290.
1652. | 2224.
2192.
2837.
2685.
3375. | TOTAL ACRES | | | | |
| | VERY WET MANUF'S | •• | | | | RESTRICT
OPFN
SPACE AC | 1256. | 1263.
1263.
1283. | 1294.
1294.
1315.
1308.
1328. | 1334.
1319.
1346.
1322.
1362. |
| | MANUE .G | 193. | 2.
1.
22.
13. | 23.
22.
12.
21.
5. | 23.
24.
26. | STREETS/
HIGHWAYS
ACRES | 333. | 449.
480.
472. | 501.
547.
547.
589. | 623.
575.
670.
597. |
| | MANUE .G | 42. | 632.
428.
908.
588. | 895.
623.
971.
702.
1093. | 1327.
1018.
1456.
1119.
1177. | EXTENS IV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 188. | 586.
568.
834.
786. | 1071.
983.
1319.
1143.
1591. | 2042.
1591.
2331.
1721.
2928. | EXTENSIV
INDUST'L
ACRES | 139. | 139.
139.
139. | 139.
139.
139.
139. | 139.
139.
139.
139. |
| | INC HH'S | 387. | 621.
609.
829.
780. | 1096.
991.
1412.
1214.
1786. | 2328.
1885.
2741.
1929.
3207. | NET IND/
NON-MEG
ACRES | 12. | 26.
23.
29. | 35.
49.
51.
63. | 82.
81.
102.
120.
111. |
| | LOWER
MINDLE
INC HH'S 1 | 469.
516. | 610.
599.
791.
736. | 994.
906.
1240.
1085.
1534. | 2001.
1592.
2442.
1703.
2912. | NET IND/ P | 13. | 24.
19.
33. | 33.
25.
35.
27.
38. | 45.
49.35.
39.38. |
| | LOW | 99. | 182.
176.
244.
225. | 325.
298.
417.
374.
531. | 664.
574.
765.
580.
853. | MERCIAL
ACRES | 201. | 724.
723.
741.
732. | 785.
786.
871.
991. | 1104.
979.
1254.
1055.
1368. |
| | FINT AL
EMPLOY- | 656. | 2029.
1704.
2657.
2112. | 3495.
3276.
5275.
4584.
7595. | 10111.
7869.
13100.
9608.
15075. | NET RES-
IDENTIAL
ACRES | 638. | 1056.
1044.
1304.
1270. | 1477.
1698.
1698.
1611.
1861. | 1935.
1699.
2090.
1735.
2293. |
| | TOT AL
TOUSE-
HOLDS | 1142. | 2000.
1952.
2698.
2526. | 3486.
3179.
4388.
3817.
5442.
4465. | 7035.
5643.
8279.
5933.
9901. | . JSFD.
ACRES | 864. | 1831.
1808.
2107.
2052. | 2330.
2277.
2653.
2529.
2952. | 3166.
2794.
3495.
2926.
3821. |
| Snijthadanijgh | POPULA-
TION | 3995. | 7437.
7262.
9750. | 12588.
11482.
15837.
13780.
19086. | 24660.
19788.
29015.
20804.
34591.
23157. | VACANT
(AVAIL)
ACPES | 7277. | 6186.
5213.
5860.
5925. | 5596.
5658.
5215.
5361.
4860. | 4607.
5042.
4218.
4885.
3835.
4648. |
| 87 SOUTH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HICH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HTGH
1980 LOW
1990 HTGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HTGH
2030 LOW
2040 HTGH
2040 LOW
2050 HTGH
2050 LOW |

METPOPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CTAL
EMPLOYMT | 1773. | 3144.
3068.
3099.
5. 2897. | 3119.
3029.
3271.
3. 3068.
1. 3159. | 3866.
1. 3343.
9. 3539.
4493.
9. 3862. | ACRES | 4262. | | | |
|-------------|----------------------------------|--------|--------------------------------------|--|--|-------------------------------|-------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 185. | 919.
760.
1093.
975. | 1146.
1132.
1265.
1273.
1329. | 1531
1631
1662.
1679.
1750. | TOTAL | | | | |
| | VERY WET
MANIJF G
EMPLOYMT | •• | | | | RESTRICT
OPEN
SPACE AC | 1379. | 1383.
1382.
1385. | 1385.
1383.
1385.
1383.
1385. | 1387.
1387.
1384.
1384. |
| | MANUF.G | 170. | 248.
206.
258.
212. | 229.
201.
229.
200.
225.
196. | 228.
127.
224.
161. | STREETS/
HIGHWAYS
ACRES | 474. | 552.
545.
557.
545. | 549.
545.
535.
537. | 548.
528.
538.
568. |
| | MANIF G | 617. | 513.
320.
345.
205. | 344.
208.
194.
104.
97. | 18.
0.
200.
200. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 993. | 1374.
1360.
1323.
1289. | 1155.
1028.
1065.
911. | 900.
800.
900.
1000. | EXTENSIV
INDUST'L
ACRES | 72. | 72.
72.
72. | 72.
72.
72.
72. | 72.
72.
72.
72. |
| | UPPER
MIDDLE
INC HH'S | 1697. | 1971.
1950.
1895.
1853. | 1682.
1670.
1467.
1512.
1227. | 1200.
1100.
1300.
1500.
1500. | NET INN/
NON-MEG
ACRES | 9. | 49.
60.
53. | 63.
70.
70.
74. | 84.
93.85.
94. |
| | L TWER MI DOLE INC HH'S | 1888. | 2789.
2748.
3020.
2905. | 3148.
2986.
3232.
3222.
2970. | 3300.
2900.
3400.
3500.
3200. | MET IND/
MANUF G
ACRES | 28. | 27.
19.
21. | 20.
14.
15.
11. | 9.
8.
12.3. |
| | LOW | 416. | 717.
700.
870.
818. | 988.
920.
1079.
991.
1148. | 1200.
1100.
1228.
1100.
1280. | MERCIAL
ACRES | 176. | 311.
305.
306.
288. | 308.
297.
318.
300.
3316. | 358.
318.
387.
331.
353. |
| | EMPL OY- | 2745. | 4823.
4353.
4795.
4789. | 4838.
4570.
4958.
4645.
5117. | 5619.
5001.
6195.
5301.
6404. | NET RES-
IDENTIAL
ACRES | 1122. | 1578.
1557.
1628.
1573. | 1544.
1499.
1488.
1436.
1396. | 1433.
1456.
1330.
1501. |
| | TOTAL
HTUSE-
HOLDS | 4904. | 6851.
6757.
7108.
6865. | 6972.
6740.
6806.
6508.
6325. | 5500.
5900.
6928.
6000.
7280. | · USED · ACR ES | 1335. | 1955.
1921.
2015.
1929. | 1935.
1872.
1891.
1917.
1912. | 1884.
1724.
1944.
1758.
2011. |
| FHAP | POPULA-
TION | 17821. | 22017.
21716.
22128.
21374. | 21707.
20987.
21192.
205269. | 20553.
18383.
21259.
18593.
22662. | VACANT
(AVATL)
ACRES | 1002. | 290.
341.
232. | 321.
394.
369.
455.
456. | 371.
551.
300.
515.
222. |
| BR CTIVEHAM | | 1970 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HICH
2040 LOW
2040 HICH
2040 LOW
2040 LOW
2040 LOW
2040 LOW
2040 LOW | | 1940 | 1980 HICH
1980 LOW
1990 HICH
1990 LOW | 2000 HICH
2000 LOW
2010 HICH
2010 LOW
2020 HICH
2020 HICH | 2030 HICH
2030 LCW
2040 HTCH
2040 LCW
2050 HTCH
2050 HTCH |

METPHOPOLITAN FISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| T./ COMMED-
IFG. CIAL | 338. 1358.
526. 2414. | 1930. 4655.
1591. 4381.
2760. 6000.
2416. 6000 | 2946. 6742.
2871. 7111.
3411. 8310.
3386. 7989.
3676. 9777. | 4098. 11172.
4049. 9471.
4578. 13163.
4437. 10330.
4931. 14442.
4705. 11687. | TOTAL ACPES | 10490. | | | |
|--|--------------------------|---|---|---|-----------------------------------|--------|-------------------------------------|---|-------------------------------------|
| VERY WET INDUST./
MANUF.G NON-WEG.
EMPLOYMT EMPLOYMT | | | 0.0.34 | | ESTP ICT
OPEN
PACE AC | 822. | 831.
850.
848. | 862.
859.
878.
872.
888. | 888.
877.
897. |
| WET . V | 873. | 634.
520.
688.
563. | 697.
565.
695.
563.
563. | 689.
367.
663.
239.
608. | STOEFTS/ R
HIGHWAYS
ACRES S | 639. | 823.
813.
874.
865. | 990.
1033.
1018.
1067. | 1084.
1030.
1124.
1046. |
| .DOY. | 1301. | 1588.
1400.
1918.
1530. | 1915.
1536.
1938.
1966. | 2034.
1619.
2070.
1639.
1942. | INSTITUT
ACRES | € € | | . | |
| HIGH
INCOME | 628. | 1355.
1318.
1635.
1585. | 1870.
2085.
1933.
2285. | 2476.
2124.
2608.
2166.
2868. | EXTENSIV
INDUST'L
ACPES | 497. | 497.
497.
497. | 497.
497.
497.
497. | 497.
497.
497. |
| UPDED WINDLE | 1271. | 2501.
2451.
2815.
2755. | 3119.
3409.
3224.
3670. | 3758.
3379.
3910.
3387.
4061. | NET IND/ E | 32. | 113.
98.
151. | 160.
181.
181.
193. | 212. 210. 234. |
| LOWER WIDDLE | 2046. | 3290.
3226.
3943.
3733. | 4480.
4183.
4999.
4564.
5506. | 5878.
5079.
6375.
5185.
6878. | MET TND! NAME OF ACRES | 51. | 71.
60. | 79.
64.
80.
80. | 82.
82.
59. |
| INCOME
HHIS | 380. | 807.
1020.
955. | 1174.
1088.
1331.
1214.
1487. | 1600.
1405.
1728.
1412.
1837. | MEPCIAL
ACPES | 142. | 401.
383.
491. | 540.
565.
645.
743.
685. | 836.
722.
968.
780. |
| FMOL NY- | 3339. | 8908.
7902.
11367.
10509. | 12300.
12084.
14353.
13494.
16106. | 17993.
15506.
20474.
16645.
21923. | NET DES-
IDENTIAL
ACPES | 1635. | 2678.
2661.
2914.
2883. | 3057.
3012.
3258.
3175.
3383. | 3310.
2996.
3424. |
| HOUSE-
HOLDS | 4325. | 7973.
7802.
9412. | 10643.
10079.
11823.
10936.
12948. | 13713.
11987.
14521.
12149.
15644. | *15 ED * | 1859. | 3264.
3202.
3635.
3574. | 3836.
3798.
4164.
4398.
4205. | 4440.
3989.
4709. |
| TTAL POOL A- | 16328. | 28293.
28293.
33149.
31804. | 37458.
35483.
40406.
37388.
44279. | 45460.
39763.
48455.
40299.
50266. | VACANT
(AVATL)
ACRES | 6665. | 5067.
5141.
4627.
4699. | 4342.
3911.
6053.
3633. | 3575.
4088.
3257. |
| | 1960 | 1990 HIGH
1980 HIGH
1990 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 LOW | 2030 HTCH
2030 1 CW
2040 HTCH
2050 HTCH
2050 LOW | | 1950 | 1980 HICH
1990 HICH
1990 LICH | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTCH
2030 HTCH
2040 HTCH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMER-
CIAL
EMPLOYNT | 217. | 423.
413.
429. | 1100.
1000.
2000.
1700.
3000.
2500. | 4671.
3423.
6940.
4699.
8786. | CRES | 82. | 111111111111111111111111111111111111111 | | |
|----------------------------------|----------------|--|---|--|---------------------------------|-------|--|---|--|
| INDUST./
NON-MFG.
EMPLOYMT | 25.
183. | 305.
253.
294.
261. | 475.
848.
916.
1134. | 1634.
1647.
2207.
2135.
2744. | TOTAL ACRES | 11482 | | | |
| MANUF 'G | •• | •••• | | | PESTRICT
OPEN
SPACE AC | 1245. | 1263.
1262.
1291.
1288. | 1314.
1353.
1353.
1340.
1384. | 1401.
1366.
1438.
1375.
1487. |
| MANUF 'G | 20. | 110.
95.
159. | 166.
130.
164.
126.
154. | 158.
158.
56.
110. | STREETS/
HIGHWAYS
ACR ES | 219. | 310.
345.
337. | 385.
445.
426.
498. | 544.
481.
619.
514.
700. |
| * DPY* | 24. | | 0.
5.
13. | 49.
80.
530.
200. | EXTENSIV
INSTITUT
ACRES | 1829. | 1829.
1829.
1829.
1829. | 1829.
1829.
1829.
1829.
1829. | 1829.
1829.
1829.
1829.
1829. |
| H1GH
INCOME
HH • S | 80. | 455.
439.
690.
648. | 911.
834.
1137.
983.
1375. | 1741.
1973.
1477.
2444. | EXTENSI V
INDUST •L
ACRES | 20. | 20°.
20°.
20°. | 20.
20.
20.
20.
20. | 20.
20.
20.
20. |
| UPPER
MIDDLE
INC HH'S | 183. | 456.
446.
578.
548. | 733.
673.
932.
815.
1168. | 1499.
1236.
1775.
1267.
2088. | NET IND! P | 35. | 43.
42. | 54.
79.
84.
103. | 131.
133.
169.
165.
205. |
| L DNFR
MI DDLE | 368. | 431.
422.
550.
512. | 682.
621.
849.
743.
1051. | 1369.
1088.
1688.
1172.
2031. | MET IND! MANUF G | 18. | 15.
15.
16. | 17.
16.
17.
16.
16. | 18.
18.
14.
21. |
| TACOME | 100. | 99.
114.
108. | 146.
135.
199.
176.
264. | 369.
459.
309.
560. | NET COM- | 49. | 95. | 140.
130.
200.
177.
267. | 378.
291.
529.
376.
652. |
| TOT AL
EMPLOY- | 332. | 883.
789. | 1741.
1682.
3016.
2747.
4301. | 6512.
5185.
9185.
6954.
11839. | NET RES- | 541. | 1248.
1221.
1594.
1542. | 1885.
1807.
2347.
2202.
2762. | 2971.
2455.
3429.
2569.
4044. |
| TOTAL
HOUSE-HOLDS | 731. | 1440.
1404.
1933.
1815. | 2472.
2263.
3117.
2716.
3858. | 4978.
3997.
5895.
4225.
7124. | ·USED. | 613. | 1401.
1368.
1748.
1597. | 2096.
2012.
2662.
2478.
3144. | 3498.
2893.
4147.
3125.
492?. |
| TOTAL
PIPULA-
TION | 2573.
3984. | 5088.
4962.
6814.
5401. | 8699.
10957.
9554.
13155. | 16972.
13539.
20090.
14412.
24268.
16355. | VACANT
(AVATL)
ACRES | 7556. | 6659.
6698.
6250.
5321. | 5839.
5936.
5173.
5389.
4607. | 4190.
4893.
3430.
4619.
2524. |
| 90 NTP | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LPW
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LPW
2040 HIGH
2040 LPW
2050 HIGH
2050 HIGH | | 1970 | 1980 HIGH
1980 LGW
1990 HIGH
1990 LGW | 2000 HICH
2000 I IN
2010 HIGH
2020 HIGH
2020 HICH | 2030 HICH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH |

METENDULITED NISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2050

| | T./ COMMER-
-G. CIAL
MT EMPLOYMT | 163. 566.
557. 1780. | 1385. 2757.
1145. 2621.
1970. 4049.
1641. 3377. | 2250. 5299.
2250. 5023
2935. 7643.
2989. 6465
3422. 9936.
3496. 8047 | 3983. 11326.
3908. 8692
4370. 13217.
4347. 9680
4806. 14644.
4786. 11574 | TOTAL ACRES | 15680. | | | |
|-------------|--|-------------------------|--|---|---|-------------------------------|---------|-------------------------------------|---|--|
| | ET INDUST. / | 0. 16 | 0. 136
0. 19 | 0.0 29
0.0 29
0.0 34; | 0. 3883.
0. 4370.
0. 436.
0. 4806. | | 2. | 762.
1960.
172.
2061. | 2096.
2096.
167.
2143.
208. | 2177.
2177.
255.
2186.
2203. |
| | VERY WET | | 3. | | | RESTRI
DPEN
SPACE | . 1922. | 1. 20 | 15. 21
97. 22
63. 22 | |
| | MANUE'S | 50. | 72.
6
102. | 105 | 26 65 | STREETS/
HIGHWAYS
ACRES | 433. | 88 104 | 0. 1132
0. 1236
0. 1320
0. 1320 | 1350.
1623.
3. 1266.
1495. |
| | MANIF G | 1143. | 1846.
1537.
2028.
1634. | 2023.
1647.
2061.
1686.
2110. | 2190.
1790.
2230.
1821.
2152. | INSTITUT
ACPES | 580. | 580.
590.
580. | 780.
780.
780.
780. | . 580.
. 580.
. 580. |
| | HIGH
INCOME
HH'S | 2073. | 2419.
2374
2833.
2721 | 3187.
3003.
3549.
3224.
3424. | 4280.
3547
4612.
3688
5296. | EXTENSIV
INDUST'L
ACRES | 126. | 126.
126.
126. | 126.
126.
126.
126.
126. | 126.
126.
125.
126.
126. |
| | UPPER
MIDDLE
INC HH'S | 578. | 2317.
2254.
3110.
2922. | 3876.
3553.
4624.
4095.
5385. | 6070.
5171.
6668.
5237.
7313. | NET TND/
NTN-MEG
ACRES | 6. | 10001 | 206.
263.
254.
313.
286. | 317.
374.
350.
403. |
| | LOWER MIDDLE | 471. | 1285.
1243.
1954.
1791. | 2608.
2369.
3298.
2901.
4054. | 5047.
4190.
5963.
4441.
6898. | MANIF GACRES | 101. | 150.
136.
156. | 156.
157.
157.
158. | 140.
140.
151.
152. |
| | S.HH
MUJNI | 166. | 324.
316.
440. | 588.
759.
761.
778. | 1771.
1077.
141c.
1090.
1598. | MEDCTAL
ACPES | 177. | 709. | 791.
772.
947.
869.
1100. | 1103.
1017.
1319.
1083.
1414. |
| | FMPL CY- | 1916. | 6061.
5366.
8049.
6736. | 9645.
9905.
12744.
11225.
15563. | 17465.
14390.
19842.
15848.
21693. | INENTIAL
ACRES | 1479. | 4679.
4621.
6053.
5881. | 6537.
6330.
7236.
7756. | 7829.
6845.
9340.
6963.
8948. |
| | 4005 5- | 1915. | 6344.
6187.
8336.
7839. | 10259.
9462.
12247.
10911.
14337. | 16619.
13985.
18662.
14456.
21094.
15299. | *USED* | 1763. | 5527.
5430.
7026. | 7505.
7505.
8594.
8239.
9301. | 9494.
8376.
10169.
8500.
10993. |
| A SI | POOFILA-
TION | 7447. | 23044.
22470.
29382.
71642. | 34111.
4324.
43047.
38395.
48957.
41872. | 6710.
4775.
63555.
49355.
71927.
52222. | VACANT
(AVATL)
ACPES | 10857. | 6601.
6714.
4829.
5123. | 4042.
4258.
2978.
3374.
2144. | 1911.
3184.
1129.
2933.
283. |
| סו לוושוובא | | 1960 | 1980 ulch
1980 ulch
1990 ulch | 2000 UTCH
2000 UCW
2010 UTCH
2010 UTCH
2010 UTCH
2020 UTCH | 2039 HIGH
2030 HIGH
2040 HIGH
2040 LOW
2050 HIGH | | 1040 | 1980 HTCH
1980 HTCH
1990 HTCH | 2000 HIGH
2000 10W
2010 10W
2020 HIGH
2020 HIGH | 2040 HTCH
2040 HTCH
2040 HTCH
2050 LOW
1050 HTCH
2050 LOW |

METRICON ITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1533. | 1752.
1711.
1714.
1595. | 1745.
1707.
1737.
1669.
1603. | 1629.
1629.
1731.
1754.
1623. | CPES | 1984. | | | |
|-------------|-----------------------------------|------------|--------------------------------------|--|---|-----------------------------------|------------|------------------------------|---|---|
| | INDUST./
NON-MEG.
EMPL DYMT | 218. | 657.
543.
767.
685. | 809.
806.
857.
833.
885. | 957.
927.
1047.
918. | TOTAL ACPES | 161 | | | |
| | VERY WET I | :: | | | | PESTRICT
OPEN
SPACE AC | 317. | 323.
328.
328. | 331.
328.
334.
331.
336. | 336.
332.
338.
332.
339. |
| | MANUF'S
EMPLOYMT E | ; : | 43.
37.
70.
58. | 71.
59.
71.
60. | 44.
32.
22. | STREETS/ 9
HIGHWAYS
ACRES S | 248. | 272.
269.
284.
278. | 290.
297.
297.
290.
298. | 297.
287.
303.
290.
304. |
| | MANUF 'G | 138. | | | | EXTENSIV SINSTITUT H | •• | ::: | | |
| | HTGH
INCOME
HH'S | 1348. | 1530.
1510.
1617.
1570. | 1678.
1608.
1750.
1643.
1824. | 1920.
1668.
2020.
1695.
2276. | EXTENSIV INDUST'L ACRES | *; | 94. | ***** | 94. |
| | JODEO WINDLE | 958. | 1180.
1159.
1318.
1268. | 1424.
1351.
1521.
1416.
1466. | 1508.
1784.
1516.
1905. | NET IND/
NON-MEG
ACRES | 12.
15. | 40.
33.
48. | 50.
53.
52.
52. | 55.
58.
58.
58. |
| | LOWER MIDDLE | 1259. | 1569.
1541.
1777.
1687. | 1927.
1798.
2045.
1883.
2143. | 2164.
1941.
2247.
1953.
2340. | NET IND/
MANUF'G
ACRES | ** | 1.
2. 1. | 2. 2. 2. 2. 2. 1. | |
| | INCOME
THE S | 449. | 552.
545.
607.
582. | 658.
620.
708.
654.
749. | 758.
676.
781.
677. | NET COM-
MERCIAL
ACRES | 77. | 87.
86. | 87.
87.
80.
80. | 82.
88.
90.
83. |
| | FMPL CY- | 1893. | 2453.
2792.
2552.
2339. | 2625.
2572.
2666.
2604.
2496. | 2587.
2699.
2699.
2804.
2563. | NET RES-
TOENT TAL
ACPES | 690. | 849.
837.
943. | 985.
943.
1043.
985.
1073. | 1060.
952.
1093.
958.
1106. |
| | HOUSE-
HOLDS | 4364. | 4830.
4756.
5320.
5108. | 5682.
5377.
5024.
5596.
6327. | 6532.
5794.
6837.
5841.
7317. | ACRES | 782. | 977.
956.
1077. | 1125.
1081.
1185.
1125.
1207. | 1197.
1095.
1241.
1114.
1247. |
| CWAMP SCOTT | POPILA- | 13294. | 15001.
14772.
16520.
15963. | 17644.
16697.
18733.
17376.
19009. | 19625.
17410.
20524.
17552.
21979. | VACANT
(AVATL)
ACRES | 543. | 343.
200.
253. | 145.
74.
74.
144.
189. | 59.
177.
8.
153.
0. |
| NAU? CE | | 1960 | 1980 HISH
1990 HISH
1990 HISH | 2000 HIGH
2000 LOW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 LOW
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HTCH 1981 | 2000 HTGH
2000 LCW
2010 HTGH
2010 LCW
2020 HTGH
2020 LCW | 2030 HIGH
2030 LIW
2040 HIGH
2050 HIGH
2050 LIW |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | INDUST./ COMMED-
NON-MEG. CIAL
EMPLOYMT EMPLOYWT | 166. 771.
388. 1744. | 1062. 2595.
878. 2472.
1582. 3872.
1386. 3236. | 1895. 4928.
1934. 4646.
2426. 6628.
2476. 5655.
2891. 8790. | 3465. 10597.
3450. 7999.
4065. 12982.
3893. 9055.
4538. 14604.
4222. 10613. | TOTAL ACPES | 13382. | | | |
|-----------|--|-------------------------|---|---|--|---------------------------------|--------|------------------------------------|---|---|
| | WENT I | | | | | RESTRICT
OPEN
SPACE AC | 1738. | 1762.
1760.
1802.
1795. | 1824.
1814.
1848.
1855.
1865. | 1845.
1877.
1847.
1890.
1850. |
| | *MET* | 58. | | , v , o | 3 | STREETS/
HIGHWAYS
ACRES | 596. | 830.
820.
906.
881. | 951.
1007.
971.
1060. | 1084.
1000.
1134.
1021.
1173. |
| | MANUF 'S | 43. | 2500.
2500.
3688.
3205. | 3676.
3236.
3741.
3297.
3891. | 3200.
1400.
3309.
1485.
3097. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH S | 519. | 1016.
995.
1226. | 1405.
1319.
1571.
1423.
1731. | 1914.
1603.
2031.
1643.
2258. | EXTENSIV
INDUST . L
ACPES | 487. | 487.
487. | 487.
487.
487.
487. | 487.
487.
487.
487.
487. |
| | MINOLE HATS | 1182. | 1804.
1779.
2041. | 2278.
2142.
2502.
2292.
2713. | 2830.
2466.
2956.
2473.
3081. | NET IND!
NON-MEG
ACRES | 50. | 152.
142.
179. | 196.
198.
224.
226.
248.
251. | 278.
277.
310.
330.
335. |
| | LOWER MIDNLE | 1591. | 2426.
2426.
2887. | 3057.
3652.
3332.
4039. | 4386.
3778.
4782.
3862.
5184. | MANIF G
ACPES | 10. | 30.
48. | 48.
41.
49.
52.
52. | 45.
71.
47.
44.
20. |
| | INCOME | 231. | 970.
835.
1103. | 1231.
1134.
1336.
1213.
1461. | 1507.
1329.
1502.
1331.
1665. | WEDCIAL
MEDCIAL
ACPEC | 320. | 781.
772.
866.
823. | 936.
1749.
995.
1194. | 1314.
1141.
1473.
1211.
1581. |
| | EMPLOY- | 1038. | 6158.
5850.
9142.
7827. | 1050?.
9818.
12798.
11428.
15573. | 17265.
12849.
20360.
14434.
27244.
16206. | NET RES-
INENTIAL
ACRES | 1518. | 2944.
2791.
3344.
3226. | 3627.
3472.
3926.
3704.
4134. | 4078-
3584-
4227-
3610-
4388-
3649- |
| | HOUSE-
HOLDS | 3521.
5219. | 6157.
6036.
7256.
6905. | 8187.
7651.
9060.
9251.
9945.
8789. | 17536.
9176.
11361.
9309.
12188. | ACP FS | 1989. | 3837.
3736.
4437.
4260. | 4628.
5248.
4957.
5527. | 5715.
5023.
6052.
5145.
5303. |
| TEMESSIBY | POPULA-
TION | 15902. | 25975.
25490.
29547.
28277. | 33256.
31187.
32777.
32738.
34143. | 472246.
34861.
44006.
34607. | VACANT
(AVAIL)
ACPES | 8672. | 5437.
6579.
5750.
5959. | 5312.
5522.
4792.
5134.
4343. | 4231.
5027.
3832.
1882.
1484. |
| 93 TEWK | | 1940 | 1980 HIGH
1980 HIGH
1990 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 416H
2040 416H
2040 416H
2050 416H
2050 1CW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LPW
2040 HIGH
2040 LPW
2050 HIGH
2050 LPW |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| | COMMER-
CIAL
EMPLOYMT | 259. | 697.
666.
923. | 1517.
1556.
2573.
2250.
3675. | 4724.
3599.
6172.
4432.
7218. | ACRFS | 8230. | | | |
|-----------|----------------------------------|----------------|-------------------------------------|--|---|-------------------------------|-------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 36. | 187.
154.
288.
250. | 472.
542.
807.
1061. | 1407.
1475.
1795.
2130.
2142 | TOTAL ACRES | 80 | | | |
| | VERY WET
MANUF G
EMPLOYMT | •• | | | | RESTRICT
OPFN
SPACE AC | 1844. | 1872.
1871.
1950.
1944. | 1980.
1971.
2000.
1988.
2016. | 2020.
2036.
2036.
2004.
2057. |
| | MANUF G | ; ; | 30. | 33.
21.
32.
20.
18. | | STREFTS/
HIGHWAYS
ACRES | 322. | 457.
452.
559.
546. | 607.
595.
649.
685. | 708.
749.
672.
790. |
| | MANUF 'G | 94. | 0.
44.
27. | 300.
310.
313.
342. | 412.
408.
455.
909.
888. | EXTENSIV
INSTITUT
ACRES | 55. | 55.
55.
55. | 55.
55.55.
55.55. | 55.5.
55.5. |
| | HIGH
INCOME
HH'S | 358.
510. | 779.
755.
1064.
1005. | 1301.
1203.
1519.
1345.
1736. | 1979.
1598.
2157.
1670.
2517. | EXTENSIV EINDUST*L I | 78. | 78.
78. | 78.
78.
78.
78. | 78.
78.
78.
78. |
| | H TODLE | 214. | 605.
589.
824.
773. | 1059.
965.
1306.
1144.
1570. | 1853.
1551.
2093.
1578.
2355. | NET IND! ENDNON-WEG I | | 15.
13.
22.
20. | 34.
57.
57.
63. | 97.
101.
123.
125.
145. |
| | LOWER
MIDDLF
INC HH'S | 238. | 420.
409.
592.
547. | 774.
705.
977.
860.
1207. | 1518.
1245.
1820.
1327.
2129.
1381. | MET IND/ P | •• | | 11.0.11.11.11.11.11.11.11.11.11.11.11.11 | 13.
14.
27.
26. |
| | LOW | 70. | 92.
91.
121. | 237.
237.
216.
311.
271. | 410.
359.
4°6.
365.
601. | NET COM- | 85. | 177.
175.
193.
184. | 232.
235.
303.
281.
376. | 446.
371.
543.
612. |
| | TOTAL
EMPLOY- | 393. | 913.
846.
1305.
1110. | 2322.
2419.
3723.
3481.
5096. | 6542.
5483.
8422.
4703.
10257. | NET RES- | 702. | 1773.
1736.
2747.
2647. | 3113.
2984.
3369.
3196.
3567. | 3615.
3143.
3817.
4076. |
| | TOTAL
HOUSE-
HOLDS | 1339. | 1896.
1844.
2601.
2438. | 3310.
3038.
4039.
7566.
4824. | 5760.
4753.
6566.
4941.
7502. | *USED * | 797. | 1968.
1927.
2965.
2853. | 3268.
3739.
3550.
4028. | 4171.
3628.
4496.
3754.
4860. |
| Theselein | TOTAL
POPULA-
TION | 3351.
5225. | 7205.
7306.
9624. | 12248.
11240.
14539.
12836.
17366. | 20736.
17112.
22980.
17292.
26608. | VACANT
(AVATL)
ACOFS | 5134. | 3800.
3848.
2623.
2754. | 2121.
2263.
1700.
1931.
1368. | 1199.
1817.
817.
1667.
391. |
| Sant 40 | | 1960 | 1080 HICH
1980 HICH
1980 HICH | 2000 HIGH
2000 LPW
2010 HIGH
2010 LPW
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LCM
2040 HIGH
2040 LCM
2050 HIGH
2050 LCM | | 1960 | 1980 HIGH
1980 I CW
1990 HIGH
1990 L CW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | TION
TION | AC TOH | MENT | ¥. | TAC HHOS | INC HH.S | S. HH | EMPLOYMT | EMPLOYMT | EMPLOYMT | EMPLOYMT |
|--|--|--|---|--|---|---|--|----------------------------------|--------------------------------------|---|--|
| 1940 | 242°5. | 7017. | 9192. | 708. | 2677. | 2124. | 1508. | 4540. | 420. | | 734. |
| 1980 HICH
1980 LCW
1950 HICH
1950 LCW | 29452.
28924.
33319.
31758. | 8819.
8659.
10303.
9816. | 9926.
8459.
9125.
8825. | 780.
767.
1122.
1030. | 3369.
4011.
3811. | 2657.
2609.
2991.
2874. | 1949.
1915.
2180.
2101. | 2160.
1229.
1500.
1500. | 504.
437.
601.
509. | • | 1933.
1602.
2024.
1816. |
| 2000 HIGH
2000 LIN
2010 HIGH
2010 LIW
2020 HIGH
2020 LIW | 36967.
34562.
39095.
35833.
42159. | 11444.
19723.
12499.
11447.
13487. | 8895.
8877.
8730.
8624.
8510. | 1261.
1143.
1353.
1215.
1429.
1265. | 4506.
4217.
4991.
4566.
5461. | 3296.
3111.
3592.
3301.
3841. | 23 | | 614.
514.
611.
508.
502. | • • • | |
| 2030 HIGH
2030 LCM
2040 HIGH
2050 HIGH
2050 HIGH | 44362.
38463.
47090.
38324.
50169.
39512. | 14199.
12295.
15078.
1244.
16071. | 9798.
8767.
9363.
9647. | 1456.
1263.
1572.
1270.
1676. | 5834.
5069.
6302.
5170.
6768. | 3977.
3485.
4155.
3497.
4335. | 2930.
2479.
3049.
2507.
3292.
2608. | \$96.
500.
325.
211. | 598.
325.
566.
211.
492. | | 2350.
2404.
2566.
2546.
2646.
2670. |
| | VACANT
(AVATL)
ACRES | · USED · | VET PEC-
INFNTIAL
ACRES | MERCIAL
ACRES | MANUE G
ACRES | NON-MEG
ACRES | EXTENSIV
INDUST*L
ACRES | EXTENSIV
INSTITUT
ACRES | STREETS/
HIGHWAYS
ACP ES | PESTRICT
OPEN
SPACE AC | TOTAL |
| 1960 | 1696. | 1784. | 1563. | 153. | 44.30. | 25. | 92. | •• | 585. | 893. | |
| 1980 HTCH
1980 LTM
1990 HTCH | 955.
1039.
678. | 2433.
2361.
2674.
2590. | 2080.
2045.
2334.
2263. | 233.
227.
218.
218. | 24.
15. | 96.
74.
132. | 92.
92.
92. | | 662.
651
688. | 909.
907
919. | |
| 2000 HIGH
2010 HIGH
2010 LIW
2020 HIGH
2020 HIGH | 661.
425.
557.
358. | 2688.
2688.
2894.
2779.
2952. | 244.
2344.
2549.
2435.
2611. | 218.
218.
218.
218.
218. | 16.
17.
14.
15. | 196.
103.
112.
1112.
1111. | 92. | | | 923.
919
927.
930. | |
| 2030 HIGH
2040 HIGH
2040 LIW
2050 HIGH
2050 HIGH
2050 LIW | 372.
680.
250.
629.
158. | 2937.
2666.
3042.
7109.
3120. | 2570.
2306.
2625.
2315.
2687. | 234.
224.
271.
282.
278. | 6 6 6 | 124.
128.
138.
144.
145. | 92. | | 719.
689
735.
697
745. | 930. | |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 1539. | 3500.
3500.
5000. | 6351.
6896.
8355.
8095.
10588. | 12308.
10439.
14661.
11608.
16062. | Cees | 98. | | | |
|------------|------------------------------|--------|--------------------------------------|---|---|-------------------------------|-------------|--|---|--|
| | NON-MEG. | 351. | 1000.
1000.
2031.
1926. | 2451.
2704.
3116.
3412.
3620. | 4228.
4504.
4878.
5364.
5342. | TOTAL ACPE | 13498. | | | |
| | WERY WET MANUF 'G | 1096. | 360.
331.
158. | 200.
200.
200.
200.
200.
200. | 200.
200.
200.
200.
200.
200. | RESTRICT
OPEN
SPACE AC | 1259. | 1302.
1299.
1377. | 1425.
1412.
1473.
1452.
1508. | 1508.
1479.
1535.
1485.
1567. |
| | MANUF'S | 1046. | 1421.
1122.
1536.
1186. | 1553.
1191.
1548.
1185.
1538. | 1538.
802.
1428.
536.
1280. | STREETS/
HIGHWAYS
ACRES | 565. | 777.
767.
899.
879. | 980.
965.
1066.
1031.
1138. | 1164.
1063.
1226.
1278.
1278. |
| | MANUF G | 835. | 1360.
1121.
1630.
1289. | 1627.
1296.
1632.
1304.
1649. | 1621.
1262.
1565.
1170.
1483. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH • S | 728. | 1544.
1503.
2009.
1908. | 2396.
2229.
2749.
2458.
3097.
2656. | 3459.
2837.
3743.
2960.
4302. | EXTENSIV
INDUST'L
ACRES | 445. | 445.
445.
445. | 445.
445.
445.
445. | 445.
445.
445.
445. |
| | MIDDLE
MIDDLE
INC HH'S | 1161. | 2085.
2029.
2780.
2612. | 3432.
4027.
3578.
4610. | 5054.
4305.
5486.
4350.
5937. | NET IND/
NON-MFG
ACRES | 31. | 68.
68.
102. | 116.
125.
139.
148.
155. | 176.
185.
197.
203.
213. |
| | L MER
MI DOLF
INC HH'S | 1440. | 2268.
2216.
2966.
2715. | 3614.
3328.
4270.
3820.
4960. | 5666.
4755.
6448.
4953.
7240.
5079. | NET IND/
MANUF G
ACP ES | 100. | 106.
87.
1111. | 112.
90.
112.
90. | 112.
76.
106.
66.
99. |
| | INCOME
HH'S | 366. | 519.
503.
710.
655. | 883.
1055.
957.
12*1. | 1441.
1262.
1628.
1273.
1792. | NET COM-
MERCIAL
ACPES | 248. | 505.
505.
605. | 695.
731.
828.
811.
977. | 1092.
967.
1249.
1045.
1342. |
| | EMPLOY- | 4867. | 7641.
7074.
10354. | 12192.
12297.
14852.
14196.
17595. | 19895.
17207.
22732.
18577.
24367. | NET RES-
IDENTIAL
ACRES | 1522. | 3044.
2983.
3981. | 4392.
5187.
5622.
5230. | 5614.
4805.
5951.
4881.
6344. |
| | HOUSE-
HOLDS | 3644. | 6416.
6250.
8465.
7945. | 10325.
9516.
12101.
10814.
13918. | 13623.
13159.
17305.
13535.
19271. | ·USED .
ACRES | 1901. 2599. | 3722.
3643.
4799.
4631. | 5504.
5338.
6266.
5940.
6867. | 6993.
6033.
7504.
6196.
7999. |
| 310 | PAPULA-
TION | 14068. | 23754.
23158.
30287.
28466. | 36793.
33964.
41800.
37424.
47978. | \$2202.
44081.
\$7764.
\$5323.
\$63323. | VACANT
(AVAIL)
ACRES | 9327. | 7252.
7344.
5978. | 5338.
4248.
4630.
3539. | 3387.
4478.
2798.
4286.
2211. |
| 96 WALPOLE | | 1960 | 1980 HIGH
1980 HIGH
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW
2050 LOW | | 1960 | 1980 HIGH
1980 LTW
1990 HIGH
1990 LTW | 2000 HIGH
2003 LOW
2010 HYGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2040 LOW
2040 HIGH
2050 HIGH
2050 HIGH |

METODORLITAN DISTOICT COMMISSION—WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMED-
CIAL
T EMPLOYME | . 13755. | 7367. 20876.
7367. 20876.
79. 21449.
8230. 19925. | 136. 21003.
8420. 19945.
152. 21021.
8441. 18718.
195. 20550. | 8022, 16899, 131, 21593, 16836, 16836, 17277, | TOTAL ACPFS | 8653. | | | |
|------------|------------------------------------|----------|--|---|--|--------------------------------|-------|-----------------------------------|--|---|
| | I NOUST./
NON-WEG.
EMPL NYMT | 2488. | 88 | 8 38 88 | e. e. e. | TOTA | | | | |
| | VERY WET MANUE 'G | •• | | | | DESTRICT
OPEN
SPACE AC | 1818. | 1844.
1853.
1845.
1857. | 1850.
1851.
1851.
1851.
1851. | 1851.
1861.
1853.
1861. |
| | MANUE G | 1331. | 849.
667.
750.
568. | 568.
420.
420.
309.
356. | 358.
179.
360.
162.
367. | STREETS/
HIGHWAYS
ACRES | 1053. | 1299.
1291.
1300.
1295. | 1296.
1295.
1297.
1281.
1275. | 1267.
1208.
1278.
1198.
1266. |
| | MANIF S | 19677. | 21865.
14542.
20919.
13700. | 18994.
12612.
18238.
11800.
17117. | 15508.
9371.
13764.
11231.
5980. | EXTENSIV
INSTITUT
ACRES | 11 | *, *, | , , , , , , , , , , , , , , , , , , , | 4 4 4 |
| | HIGH
INCOME
HH'S | 2726. | 4003.
3932.
4033.
3722. | 3873.
3295.
3651.
2945.
3262. | 3141.
2012.
3291.
2053.
3360. | FXTENSIV
INDUST*L
ACRES | 165. | 165.
165.
165.
165. | 165.
165.
165.
165.
165. | 165.
165.
165.
165.
165. |
| | MIDDLE
MIDDLE
INC HH'S | 4010. | 6717.
6608.
7278. | 7594.
7037.
7749.
6951.
7266. | 6305.
4554.
5869.
3821.
5224. | NET IND/
NON-MEG
ACRES | 61. | 294.
291.
295. | 294.
313.
284.
315.
266. | 271.
301.
282.
309.
305. |
| | LOWER MI POLE | 5865. | 9805.
9632.
11210.
10680. | 12297.
11501.
13290.
12144.
14093. | 14452.
12516.
15147.
12574.
15794. | MET IND!
MANUF'S
ACPES | 264. | 285.
191.
272.
179. | 245.
163.
734.
152.
219. | 199.
120.
177.
102.
145. |
| | INCOME
HHIS | 2132. | 2902.
2852.
3262.
3113. | 3590.
3361.
3601.
4192. | 4287.
4450.
4588.
4588. | MEDCIAL
MEDCIAL
ACRES | 1365. | 1418.
1407.
1417.
1343. | 1344.
1348.
1388.
1261.
1357. | 1368.
1139.
1422.
1134.
1399. |
| | CMDI NY- | 47251. | 53071.
43451.
52297.
42473. | 49401.
41391.
48531.
39268.
46318. | 45014.
34472.
44247.
31113.
41198. | VET RES-
10ENTIAL
ACP ES | 2168. | 3344.
3452.
3355.
3504. | 3421.
3511.
3431.
3334. | 3238.
3084.
3267.
2999.
3277. |
| | HOUSE- | 14733. | 23427.
23024.
25783.
24490. | 27333.
25201.
28591.
25643.
28813. | 29185.
229769.
29769.
22257.
28966. | ACR ES | 3423. | 5341.
5341.
5339. | 5338.
5332.
5337.
5282.
5176. | 5076.
4544.
5148.
4545.
5098. |
| | Prosta- | 55413. | 76493.
75283.
83561.
79687. | 81316.
91996.
87141.
89768. | 87947.
72594.
89640.
70756.
90213. | VACANT
(AVSTL)
ACPES | 2191. | | 0.
0.
61.
192. | 291.
772.
205.
881.
266. |
| 97 WALTHAW | | 1940 | 1980 HIGH
1980 HOGH
WUJ 1981 | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HTCH
2030 LOW
2040 HTGH
2040 LOW
2050 HTCH
2050 LTCH | | 1940 | 1980 HICH
1980 LCW
1980 LCW | 2000 HIGH
2001 I CV
2019 HIGH
2010 I CW
2020 HIGH
2020 LICH | 2020 MIGH
2030 LCW
2040 HIGH
2040 LCW
2050 HIGH
2050 LCW |

1960 - 2050 METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS

4500. 4500. 4500. 4500. 4500. 3800. 3844. 3229. 2987. 5648. 5393. 4500. 4500. COMMEN-CIAL EMPLOYMT 4786. TOTAL ACRES 5885. 5524. 5488. 5152. 5025. 7579. 6299. 6957. 6107. 6800. 6650. 6650. 6500. INDUST./ NON-MFG. EMPLOYMT 2686. .0. .. .0. 454. 454. 454. 454. 454. 454. 454. 454. 454. 454. 454 VERY WET MANUF G RESTRICT OPEN SPACE AC 457. 279. 202. 280. 145. 182. 494. 487. 482. 466. 508. 492. 505. 488. 505. 423. 386. 313. 278. 311. 937. 760. 716. 536. 516. 511. STPEETS/ HIGHWAYS ACRES MANUF G 92. 92. 92. 92. 92. 92. 1231. 1159. 922. 826. 1633. EXTENSIV INSTITUT ACRES MANUF 'G 1536. 1515. 1450. 1400. 1400. 2000. 2000. 1543. 1501. 8617. 3714. 1040. 1099. 921. 930. 808. 1717. 1737. 1266. 1368. 700. 700. 500. 700. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26. EXTENSIV INDUST L ACRES 26. 2356. 3070. 3058. 2649. 2694. 2341. 2386. 2122. 2165. 1905. 1700. 1500. 1700. 1500. 1700. 200. 149. 171. 137. 258. 182. 237. 232. 175. 227. 173. MIDDLF INC HH'S 3351. 3664. 22. 33. 31. 25. 5302. 5248. 5281. 5230. 5231. 5162. 5216. 5208. 5080. 5200. 5200. 5200. 5200. 5200. NET IND/ MANUF G ACP ES LOWER MIDDLE INC HH'S 109. 5249. 104. 164. 164. 144. 129. 243. 232. 194. 194 194. 2085. 1968. 2266. 2093. 2548. 2800. 2800. 2800. 2800. 2400. 1825 208. NET COM-MERCIAL ACRES 1027. 1014. 943. 920. 920. 850. 920. 850. 925. 899. 916. 868. 11195. 10685. 10034. 9352. 9828. 16164. 14453. 1371 6. 12720. 13259. 12452. 12913. 12229. 12678. NET RES-1013. EMPL DY-17297. 1301. 1188. 1265. 1149. 1243. 1372. 1288. 1356. 1254. 1356. 10400. 9500. 10400. 9600. 10400. 1561. 1459. 1398. 1330. 10697. 10525. 10308. 10469. 11857. 11791. 11096. 11116. ACRES 1375. 1371. 432. 217. 236. 355. 237. 0. 122. 187. 346. 480. 372. 31813. 31573. 31313. 30684. 31150. 28631. 28631. 30951. 28631. 28631. 36361. 36165. 32971. 33029. (AVATL) ACRES 213. 39092. MATEDTOWN 2000 415H 2010 415H 2010 LPW 2020 416H 2020 LPW 2030 HIGH 2040 LIW 2040 HIGH 2050 HIGH 2050 LIW 2010 LOW 2010 LOW 2020 HIGH 2020 HIGH 2020 LOW 2030 HTCH 2030 LOW 2040 HTGH 2050 HTCH 2050 HTCH 1980 HIGH 1980 LCW 1990 HIGH 1990 LCW 1980 HIGH 1980 LOW 1990 HIGH 1990 LOW 2000 HICH 1960 1960

METOPOPOLITAN DISTOICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 661. | 2500.
2500.
3500. | 4348.
4763.
5492.
5480.
6631. | 7236.
6680.
8506.
7295.
9049. | ACRES | 10163. | | | |
|-------------|----------------------------------|----------------|--|---|--|--------------------------------|--------------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 213. | 1000.
1000.
1897.
1826. | 2128.
2313.
2485.
2719.
2714. | 2935.
3253.
3285.
3555.
3465. | TOTAL | 01 | | | |
| | VERY WET
MANUF G
EMPLOYMT | •• | | | | RESTRICT
DPEN
SPACE AC | 1826. | 1901.
1897.
1982.
1976. | 2012.
2003.
2040.
2027.
2048. | 2048.
2070.
2070.
2074. |
| | MANUF G | | | | | STREETS/
HIGHWAYS
ACRES | 427.
516. | 742.
731.
862.
849. | 913.
903.
962.
941.
977. | 945.
987.
958.
992. |
| | MANUF'S
MALOYMT | 2666. | 3500.
3500.
4000.
4000. | 4006.
4008.
4010.
4037.
4030. | 4038.
3938.
4036.
3810.
3973. | EXTENSIV
INSTITUT
ACRES | 14. | 14.
14.
14. | 14.
14.
14.
14. | 14.
14.
14.
14. |
| | HIGH
INCOME
HH'S | 1227.
1618. | 1964.
1923.
2336.
2240. | 2648.
2488.
2953.
2674.
3262. | 2608.
2922.
3041.
3040.
3865. | EXTENSIV
INDUST'L
ACRES | 134. | 134.
134.
134. | 134.
134.
134.
134. | 134.
134.
134.
134. |
| | MIDDLE
MIDDLE
INC HH'S | 697.
1037. | 1612.
1563.
2259.
2114. | 2879.
2625.
3466.
3950.
4059. | 4436.
3887.
4884.
3940.
5368. | NET IND/ B
NON-MFG
ACRES | 6.
16. | 27.
53. | 59.
65.
70.
72.
84. | 78.
91.
88.
100.
89. |
| | LOWER MI DOLE | 670. | 1154.
1118.
1497.
1440. | 1937.
1844.
2438.
2234.
2993. | 3603.
2500.
4261.
2500.
4928. | MANUF G
ACRES | 40. | 53.
53.
60. | 60.
61.
61.
61. | 60.
61.
58.
60. |
| | I NO OWE | 196. | 368.
352.
514. | 629.
601.
747.
701.
888. | 1931.
800.
1170.
700.
1293. | MERCIAL
ACRES | 124. | 348.
348.
415.
415. | 471.
499.
547.
576.
605. | 616.
627.
701.
668.
706. |
| | FWDL DY- | 3540. | 7000.
7000.
9397. | 10473.
11082.
11985.
12209.
13382. | 14209.
13872.
15827.
14460.
16487. | NET RES-
INENTIAL
ACRES | 1083. | 4449.
4340.
5451. | 5831.
5675.
6183.
5966.
6282. | 5767.
5734.
6047.
5796.
5909. |
| | T0TAL
H0155-
H01.08 | 3606. | 5097.
4956.
6605. | 9094.
7558.
9603.
8658.
11202. | 11677.
10110.
13356.
10180.
15454. | ACOFS | 2153. | 4877.
4777.
5979.
5855. | 6421.
6299.
6861.
6649.
6991. | 6523.
6512.
6897.
6621.
6950. |
| AND | POPULA-
TION | 10444. | 18462.
17954.
23893.
22732. | 29251.
27323.
33724.
39322.
33379. | 40985.
35498.
46859.
35745.
54204. | VACANT
(AVATL)
ACRES | 5611. | 2496.
2610.
1193.
1337. | 670.
153.
399.
0. | 500.
517.
62.
388.
0. |
| OND TARM 66 | | 1960 | 1940 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HICH
2001 LOW
2010 HIGH
2010 LCW
2020 HICH
2020 LCW | 2020 HIGH
2030 LDW
2040 HIGH
2040 LDW
2050 HIGH
2050 HIGH | | 1940 | 1980 HIGH
1980 HIGH
1980 HIGH
1980 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HICH
2040 HICH
2040 HICH
2050 HICH
2050 HICH |

METPROPOLITAN DISTRICT COMMISSION--WASTEWATEP STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 3906.
7572. | 8729.
8443.
9529.
8730. | 9871.
9263.
10537.
9641.
11111. | 12211.
10105.
13876.
10847.
14943.
11959. | ACPES | 6726. | | | |
|-----------|----------------------------------|----------------|--|---|---|-------------------------------|----------------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 1022. | 1500.
1500.
1900.
1900. | 2165.
2366.
2578.
2870.
2802. | 3330.
3502.
3885.
4001.
4330. | TOTAL A | 67 | | | |
| | MANUF 6 | •• | 2.00.00 | ••••• | | RESTRICT
OPEN
SPACE AC | 900. | 923.
924.
923.
924. | 923.
923.
934.
923. | 923.
923.
937.
924. |
| | MANUF 'S | 97. | | ••••• | | STPEETS/ PHIGHWAYS ACRES | 733. | 881.
880.
881.
880. | 881.
881.
888.
888.
881. | 852.
843.
867.
861.
888. |
| | *DRY*
MANUF'G | 389. | 900.
900.
951.
939. | 959.
940.
966.
942.
972. | 1008.
1008.
706.
717.
476. | EXTENSIV
INSTITUT
ACRES | •• | | | ••••• |
| | HIGH
INCOME
HH'S | 3695. | 3826.
3831.
3307. | 2699.
2824.
2251.
2740.
1908. | 2330.
2300.
2200.
2200.
2100. | EXTENSIV
INDUST*L
ACRES | 80. | 80°.
80°. | 80.
80.
80.
80. | 80.
80.
80.
80. |
| | UPPER
MIDDLE
INC HH'S | 1188. | 2544.
2518.
2982.
2760. | 3575.
3575.
2987.
3836. | 3500.
1900.
3000.
1930.
2359. | NET IND! ENDN-MEG I | 27. | 40.
41.
40. | 40.
40.
82.
40. | 76.
124.
113.
157.
142. |
| | LOWER
MIDDLE
INC HH'S | 1245. | 1793.
1775.
2246.
2071. | 2635.
2273.
2992.
2561.
3372. | 3500.
2892.
3400.
3200.
3200. | MET IND/ MANUF'S ACRES | 8.
17. | 15.
15.
15. | 15.
15.
15.
15. | 17.
11.
12.
8. |
| | I NC OWE | 782. | 574.
570.
744. | 832.
1041.
939.
1182. | 1300.
1000.
1250.
1000.
1250. | NET COM-
MERCIAL
ACRES | 590. | 1180.
1172.
1180.
1172. | 1180.
1207.
1180.
1215.
1180. | 1253.
1246.
1364.
1295.
1435. |
| | FATAL
FMPLUY-
MENT | 5414. | 11131.
10845.
12390.
11569. | 12995.
12568.
14081.
13453.
14884. | 16586.
14615.
18467.
15565.
19749. | NET PES-
IDENTIAL
ACPES | 2958. | 3605.
3613.
3605.
3613. | 3605.
3388.
3605.
3605.
3197. | 2971.
2764.
2780.
2800.
2789. |
| | TOTAL
40055-
40L05 | 6910.
7750. | 8737.
8694.
9280.
8906. | 9551.
8701.
9859.
10299. | 10630.
8092.
9850.
8330.
8909.
8199. | .USED.
ACRES | 3583.
4512. | 4841.
4841.
4841.
4841. | 4841.
4682.
4841.
4823.
4841. | 4316.
4151.
4268.
4374.
43746. |
| WELLFSLEY | PAPULA-
TION | 26071. | 31275.
31131.
32137.
30941. | 33006.
30286.
33990.
31968.
34358. | 34395.
27529.
32977.
28265.
30060.
27859. | VACANT
(AVATL)
ACPES | 1429. | | 166.
0.
0.
318. | 553.
718.
586.
583.
459. |
| 100 WELL | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 416H
2900 LCW
2010 416H
2010 LCW
2020 416H
2020 LCW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2010 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HTGH
2040 LCW
2040 HIGH
2040 LCW
2050 HTGH
2050 LCW |

METODONITTAN DISTOICT COMMISSION-WASTEWATER STUDY ACTIVITY MISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMED-
CIAL
CIAL | 131. | 244.
236.
299. | 585.
625.
1015.
917.
1398. | 1801.
1434.
2341.
1798.
2685. | ACPES | 5254. | | | |
|-----------------------------|-------|--|---|--|--------------------------------|-------|--|---|--|
| INDUST./
NON-MFG. | 50. | 109.
91.
129. | 214.
251.
347.
392.
433. | 566.
614.
715.
770.
831. | TOTAL ACP | \$ | | | |
| VERY WET
MANUF'S | •• | | | | RESTRICT
OPEN
SPACE AC | 1098. | 1120.
1118.
1154. | 1170.
1164.
1190.
1202.
1189. | 1203.
1189.
1212.
1191.
1221. |
| WET.
MANUE 6 | 111. | 90.
100.
82. | 50.
11.
50.
11.
43. | 21. | STPEETS/
HIGHWAYS
ACR ES | 143. | 236.
232.
280.
272. | 306.
337.
323.
356. | 364.
382.
337.
398.
398. |
| MANUF'G | 12. | 0.
10. | 300.
311.
313.
319. | 343.
352.
350.
704. | EXTENSIV
INSTITUT
ACRES | 611. | 611.
611.
611. | 611.
611.
611.
611. | 611.
611.
611.
611. |
| HIGH
INCOME
HH'S | 247. | 683.
659.
968. | 1197.
1098.
1392.
1226.
1580. | 1761.
1406.
1830.
1428.
1870. | EXTENSIV E INDUST L ACRES | .99 | 66.
66.
66. | 66.
66.
66.
66. | 66.
66.
66.
66. |
| UPDER
MINDLE
INC HH'S | 175. | 398.
387.
557. | 729.
661.
904.
787.
1089. | 1283.
1059.
1431.
1075.
1575. | NON-MEG
ACRES | :: | , v
, v | 12.
20.
23.
26. | 35.
45.
51.
51. |
| LOWER AT DOLE | 243. | 368.
360.
501.
463. | 633.
775.
681.
928. | 1106.
1279.
949.
1443. | MANUF'S
ACPES | 2.0 | 3.2.3.3.3. | 10. | 11.
10.
10.
18. |
| TOWE | 76. | 28.
28.
56. | 123.
177.
146.
232. | 298.
348.
255.
609. | MERCIAL
ACPES | 120. | 172.
172.
176.
173. | 198.
223.
217.
249. | 276.
251.
312.
276.
320. |
| TOTAL
FMPLCY-
MENT | 26. | 444.
405.
538. | 1145.
1198.
1723.
1633.
2192. | 2732.
23405.
2518.
4220.
3440. | NET PEST | 525. | 1288.
1257.
1712.
1652. | 1917.
1832.
2173.
2019.
2312.
2143. | 2439.
2439.
1907.
2559.
2095. |
| TOTAL
HOUSE- | 741. | 1477.
1434.
2082.
1942. | 2682.
2634.
3249.
3929. | 4448.
3520.
4889.
3707.
5497. | ·USen· | 648. | 1467.
1434.
1897.
1833. | 2133.
2953.
2427.
2289.
2599. | 2275.
2275.
2806.
2332.
2958. |
| TOTAL
POPULA-
TION | 2798. | 5633.
5484.
7542.
7065. | 9583.
8741.
11510.
10119.
13482. | 15586.
12773.
17085.
13069.
19153. | VACANT
(AVATL)
ACRES | 2689. | 1754.
1792.
1247.
1322. | 968.
1061.
622.
785.
422. | 359.
171.
177.
0.
538. |
| 101 EGYHAN | 1960 | 1980 HIGH
1980 LPW
1990 HIGH
1990 LPW | 2000 HIGH
2000 LW
2010 HIGH
2010 HIGH
2020 HIGH
2020 LCW | 2030 HIGH
2030 LOW
2040 HYCH
2040 LOW
2050 HYCH
2050 HYCH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2021 LOW | 2030 HIGH
2030 LPW
2040 HIGH
2040 LPW
2050 HIGH
2050 HIGH |

METRIPOLLITAN DISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 722.
1653. | 2200.
2200.
3137.
2724. | 3940.
3735.
5217.
4447.
7021.
5642. | 8451.
6311.
10388.
7245.
11701.
8591. | ACRES | • 99 | | | |
|-------------|----------------------------------|---------------|--------------------------------------|---|---|-------------------------------|-------------|---|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 117. | 2910.
2416.
3023.
2713. | 3118.
2960.
3372.
3210.
3634. | 3959.
3740.
4349.
4034.
4231. | TOTAL A | 13766. | | | |
| | VERY WET
MANUF'G
EMPLOYMT | •• | *.°°° | | | PESTRICT
OPEN
SPACE AC | 1891. | 1905.
1904.
1935.
1931. | 1957.
1950.
1981.
1970.
1984. | 2003.
1984.
2018.
1987.
1994. |
| | MANUF G | 1086. | 890.
692.
686.
513. | 513.
359.
370.
243.
185. | 120.
79.
78.
27. | STREETS/
HIGHWAYS
ACRES | 495. | 774.
760.
830. | 868.
848.
915.
964. | 992.
1040.
1078. |
| | DRY MANUF G | 237. | 1890.
1190.
2775.
1717. | 2752.
1780.
2879.
1910.
3095. | 3513.
2476.
3734.
2652.
3259. | EXTENSIV
INSTITUT
ACRES | :: | | | |
| | HIGH
INCOME
HH'S | 747. | 1039.
1017.
1288.
1230. | 1518.
1415.
1745.
1984.
1689. | 2326.
1882.
2562.
1979.
3060. | EXTENSIV
INDUST*L
ACRES | 211. | 211.
211.
211.
211. | 211.
211.
211.
211.
211. | 211.
211.
211.
211.
211. |
| | UPPER
MIDDLE
INC HH'S | 563. | 1378.
1352.
1718.
1628. | 2083.
1918.
2447.
2173.
2828.
2406. | 3247.
2734.
3597.
3991.
2868. | NET IND/
NON-MFG
ACRES | 56.
808. | 889.
856.
896.
876. | 903.
892.
920.
937. | 959.
944.
985.
1003. |
| | LOWFR
MIDDLE
INC HH'S | 1302. | 1522.
1494.
1865.
1760. | 2204.
2043.
2563.
2306.
2951. | 3422.
2870.
3914.
2987.
4431. | NET IND/
MANUF'G
ACRES | 33. | 70.
48.
87. | | 92.
65.
96.
83. |
| | INCOME
HH'S | 160. | 491.
474.
657. | 793.
727.
916.
826.
1060. | 1173.
1031.
1275.
1035.
1369. | NET COM-
MERCIAL
ACPES | 390. | 930.
930.
992. | 1046.
1032.
1131.
1079.
1251. | 1346.
1204.
1475.
1756.
1563. |
| | EMPLOY- | 2162. | 7894.
6503.
9622.
7667. | 10322.
8834.
11837.
9809.
13935.
11363. | 16044.
12606.
18549.
13931.
19612.
15 192. | NET PES-
IDENTIAL
ACPES | 781. | 1635.
1609.
2018.
1952. | 2288.
2196.
2587.
2437.
2820.
2616. | 2862.
2471.
3058.
2513.
33.09. |
| | HOUSE-
HOLTS | 2188. | 4431.
4337.
5528. | 6597.
6103.
7670.
6863.
8824. | 10169.
8516.
11349.
8770.
12852. | ACPES | 1260. | 3523.
3442.
3993.
3848. | 4319.
4174.
4720.
4480.
5091. | 5258.
4483.
5615.
4810.
5958. |
| WESTROBOUGH | POPULA-
TION | 9599. | 15034.
14752.
18327.
17414. | 21534.
20051.
24752.
22330.
28214. | 32248.
27291.
35783.
28052.
40298. | VACANT
(AVATL)
ACRES | 7909. | 7353.
7449.
6797.
6969. | 6412.
6583.
5940.
5223.
5531. | 5302.
5967.
4882.
5817.
4480. |
| 102 WFST | | 1960 | 1980 High
1980 LOW
1990 HIGH | 2000 HTGH
2000 LCW
2010 HTGH
2010 LCW
2020 HTGH
2020 LCW | 2020 HIGH
2020 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1949 | 1980 LOW
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2900 LCW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 376.
656. | 852.
818.
1146. | 3500.
2500.
6500.
10000. | 12682.
9257.
15991.
10859.
18176. | ACRES | 19840. | | | |
|--------------|----------------------------------|--------------|--------------------------------------|---|---|-------------------------------|--------------|--------------------------------------|--|--|
| | INDUST./
NON-MEG.
EMPLOYMT | 133. | 514.
426
608.
539. | 1072.
1245.
2484.
2431.
3613. | 4424.
4188.
5239.
4828.
5860. | TOTAL ACRES | 61 | | | |
| | VERY WET MANUF G | 60 | | | | RESTRICT
OPEN
SPACE AC | 1865. | 1876.
1875.
1902.
1898. | 1930.
1924.
1993.
1976.
2050. | 2081.
2023.
2133.
2035.
2196. |
| | MANUF G | 14. | 59.
51.
102.
80. | 51.
0 0.
0 0. | | STPETS/
HIGHWAYS
ACRES | 707. | 839.
833.
978.
867. | 959.
928.
1090.
1034.
1216. | 1296.
1173.
1403.
1215.
1501. |
| | *DRY*
MANUF 'G
EMPLOYMT | 838. | 1176.
980.
1324.
1065. | 2942.
1137.
3086.
1288.
3283.
1478. | 3154.
1454.
3317.
1574.
2884. | EXTENSIV
INSTITUT
ACRES | 2. | 2. 2. 2. 2. 2. | 2 2 2 | 2. |
| | HIGH
INCOME
HH'S | 232. | 638.
623.
836.
793. | 1046.
960.
1364.
1151.
1763. | 2523.
1901.
2917.
2082.
3694. | EXTENSIV
INDUST L
ACRES | 558. | 558.
558.
558.
558. | 558.
558.
558.
558. | 558.
558.
558.
558. |
| | UPPER WINDLE | 518.
871. | 955.
941.
1144.
1090. | 1416.
1297.
1933.
2608.
2047. | 3648.
2941.
4292.
3012.
4970. | NET IND/
NON-WEG
ACRES | 35. | 84.
78.
90.
85. | 121.
132.
215.
210.
290. | 344.
399.
371.
440. |
| | LOWER MIDDLE | 798. | 1283.
1262.
1526.
1447. | 1794.
1667.
2222.
1970.
2774. | 3692.
2981.
4466.
3178.
5258. | MET IND! | 27. | 38.
44.
36. | 88.
35.
91.
97. | 105.
110.
55.
95. |
| | LOWF | 187. | 337.
330.
398. | 530.
511.
732.
660.
951. | 1148.
1017.
1274.
1022.
1403. | MEDCIAL
ACPES | 143. | 262.
260.
282.
271. | 439.
639.
525.
872. | 1051.
823.
1271.
929.
1417. |
| | TOT AL
FMPL CY-
MENT | 1361. | 2668. | 7565.
4892.
12070.
8519.
16896.
13000. | 20263.
14899.
24551.
17261.
26921.
19752. | NET PES-
INENTIAL
ACRES | 1075. | 1997.
1972.
7326.
2263. | 2670.
3464.
3234.
4171. | 4559.
3827.
52.05.
3978.
5957. |
| ? | TOT AL
4705- | 1735. | 3213.
3156.
3904. | 4794.
4435.
5251.
5424.
8097. | 11011.
9841.
12949.
9294.
15325. | ACRES. | 1280. | 2341.
2342.
2741.
2655. | 3318.
3122.
4409.
4010.
5430. | 6059.
5984.
5333.
7949.
5821. |
| uau | Prouta- | 6241. | 11619.
11412.
14105.
13396. | 17311.
16017.
21931.
19035.
28391. | 38501.
30995.
45374.
32592.
53592.
35880. | VACANT (AVATL) | 15428. | 14184.
14230.
13759.
13860. | 13073.
13305.
11788.
12259.
10594. | 9845.
11055.
8760.
10696.
7634. |
| 103 WESTERPE | | 1960 | 1080 HIGH
1000 LOW
1900 HIGH | 2000 416H
2010 416H
2010 1 TW
2020 416H
2020 416H | 2030 LOW
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960
1970 | 1980 HIGH
1980 HIGH
1990 HIGH | 2000 4164
2010 4164
2010 4164
2010 LCW
2020 4164 | 2030 HIGH
2030 LCW
2040 HIGH
2040 HIGH
2050 HIGH
2050 LCW |

METPOPOLITAN DISTPICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | CIAL
CIAL
EMPLOYMT | 1253. | 3500.
0. 3500.
4500.
9. 4500. | 6000.
7500.
0. 6800.
9000. | 9500.
8.8387.
10000.
8.9500.
10000. | ACRES | .01111 | | 3.22 | |
|------------|----------------------------------|-----------------|--|---|---|--------------------------------|--------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 230. | 1000.
1000.
1988.
1889. | 2500.
3000.
3500.
3500. | 4078.
4026.
4733.
4718
5144. | TOTAL | | | | |
| | VERY WET MANUF G | :: | .·° | | | RESTRICT
OPEN
SPACE AC | 1732. | 1767.
1767.
1838.
1835. | 1899.
1892.
1964.
1953.
1964. | 1964.
1968.
1976.
1976.
1976. |
| | MANUE .G | 65. | 78.
68.
90. | | | STP FETS/
HIGHWAYS
ACPES | 655. | 904.
904.
1023. | 1117.
1102.
1213.
1195.
1213. | 1195.
1138.
1214.
1174.
1219. |
| | MANUF 'G | 30. | 200.
200.
696. | 676.
525.
714.
562.
797. | 901.
778.
953.
769.
729. | EXTENSIV
INSTITUT
ACRES | •• | •••• | • • • • • • | |
| | HIGH
INCOME
HH'S | 1342. | 1936.
1926.
2247.
2183. | 2487.
2363.
2690.
2478.
2456. | 1571.
1734.
1600.
1700.
1500. | EXTENSIV
INDUST L
ACPES | 149. | 149.
149.
149.
149. | 149. | 149.
149.
149.
149. |
| | INC HH'S | 289. | 742.
733.
1224.
1144. | 1722.
1556.
2177.
1891.
2474. | 2400.
2400.
2400.
2400.
2700. | NET 1ND/
NON-MFG
ACRES | 27. | 97.
163.
157. | 197.
227.
227.
227.
246. | 265.
281.
309.
327.
336. |
| | LOWER
MT DOLF
INC HH'S | 209. | 600.
592.
851.
818. | 1212.
1139.
1600.
1440.
1919. | 2000.
1500.
2000.
1500.
2000. | NET IND!
MANUE . G
ACRES | 2.1. | ., e, .
 | 14.
15.
15.
15. | 17.
18.
15.
14.
15. |
| | TNCOME
HH · c | 198. | 186.
183.
383.
359. | 669.
622.
968.
862.
1295. | 1200.
1200.
1200.
1200.
1200. | MERCIAL
ACRES | 235. | 549.
549.
616. | 689.
803.
769.
803. | 837.
831.
870.
870. |
| | FMPL CY- | 1578. | 4779.
4769.
7263. | 9176.
8625.
11214.
10362.
13297. | 14479.
13140.
15686.
14987.
15873. | NET BES-
INENTIAL
ACRES | 2503. | 4281.
4281.
5176.
5138. | 5930.
5841.
6739.
6739.
6721. | 6322.
5614.
6379.
6379.
5710. |
| | TOTAL
47115E-
HOLDS | 2038. | 3464.
3434.
4706.
4503. | 5680.
7435.
6671.
9144. | 6703.
7200.
7200.
7100.
6724. | · USED · | 2767. | 4933.
4933.
5971.
5922. | 6857.
6739.
7784.
7784.
7784. | 7441.
6740.
7576.
7600.
7020. |
| N. | TOTAL
POPULA-
TION | 8261.
10878. | 13377.
13266.
17375.
16565. | 22219.
20787.
25927.
24255.
28595. | 25286.
23594.
25385.
24705.
25045. | VACANT
(AVATL)
ACPES | 5838. | 3356.
3357.
2129.
2187. | 1088.
1228.
0.
188.
3. | 0 HIGH 362.
030 LM 1121.
040 LM 776.
040 LM 776.
0 HIGH 174. |
| 104 MESTON | | 1960 | 1980 HICH
1980 LOW
1990 HICH
1990 LCW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LCW
2020 HIGH
2020 HIGH | 2030 HTGH
2030 LCW
2040 HTGH
2041 LCW
2050 HTGH
2050 LCW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2010 LIM
2020 HIGH
2020 LIW | 2030 HIGH
2030 LIM
2040 HIGH
2050 HIGH
2050 HIGH |
| | | | | | | | | | | |

METROPOLITAN DISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMES-
CIAL
EMPLNYMT | 1216. | 1. 4842.
4548.
6000.
2. 6000. | 6401.
6731.
6901.
9. 6956.
10. 7086. | 7288.
7193.
10 7595.
10 8633. | TOTAL ACPES | 7194. | | | |
|--------------|----------------------------------|--------|--|--|--|-------------------------------|-------|-------------------------------------|---|---|
| | INDUST./
NDN-MFG.
EMBLOYMT | 648. | 2423.
2001.
3387.
2972. | 3469.
3320.
3625.
3549.
3559. | 3617.
3734
3851.
3933.
4059. | TOTAL | | | | |
| | VERY WET MANUF G | | | | | P ESTRICT
OPEN
SPACE AC | 891. | 944.
941.
992. | 1011.
1002.
1029.
1017.
1037. | 1037.
1021.
1044.
1021.
1052. |
| | MANIJE G
EMPLOYMT | ;; | 30.
26.
19. | | | STREETS/
HIGHWAYS
ACRES | 844. | 1035.
1027.
1125. | 1202.
1191.
1231.
1215.
1241. | 1204.
11226.
1201.
1238.
1231. |
| | MANUE'S
EMPLOYMT | 92. | 658.
489.
841.
585. | 840.
800.
800.
800. | 698.
510.
606.
412.
463. | INSTITUT
ACRES | ċċ | | | |
| | HIGH
INCOME
HH'S | 1083. | 1716.
1687.
1975. | 2149.
2285.
2107.
2361. | 1767.
1906.
1906.
1794.
2165. | EXTENSIV
TADUST L
ACRES | 250. | 250.
250.
250.
250. | 250.
250.
250.
250.
250. | 250.
250.
250.
250.
250. |
| | MIDDER MIDDER | 946. | 1427.
1391.
1882.
1774. | 2251.
2082.
2562.
2309.
2831. | 2724.
2545.
2883.
2559.
3046. | NET IND/
NON-WEG
ACP ES | 17. | 128.
100.
192.
165. | 198.
188.
208.
203.
205. | 208.
216.
224.
230.
229. |
| | L THE P | 726. | 1073.
1043.
1518.
1398. | 1887.
1719.
2229.
1982.
2559.
2205. | 2413.
2413.
3021.
3340.
2553. | WANIE .G | 35. | 45.
40.
50. | 48.
46.
46. | 40.
35.
27.
23. |
| | NCJ
WCJNI
HH·S | 132. | 350.
337.
507. | 696.
865. | 957.
1047.
1106.
1106. | NET COM-
MEDCIAL
AFPES | 136. | 442.
423.
519. | 546.
579.
583.
591. | 605.
599.
668.
625.
695. |
| | FMDI CY- | 1960. | 7053.
7084.
10247.
9577. | 10710.
10651.
11326.
11106.
11235. | 11602.
11636.
12696.
11959.
1302 | NET DES-
IDENTIAL
ACPES | 1630. | 2649.
2609.
3255.
3167. | 3482.
3368.
3717.
3806. | 3311.
3243.
3400.
3500.
3251. |
| | 4705 E-
4705 E-
471 75 | 2897. | 4566.
4458.
5882.
5554. | 5922.
6431.
7829.
7093.
8616. | 8145.
7712.
9857.
9657. | ACRES | 1792. | 3264.
3171.
4016.
3893. | 4274.
4166.
4551.
4386.
4548. | 4164.
4093.
4327.
4125.
4450. |
| UUÜM | POPILA- | 10354. | 16480.
15391.
20628.
19491. | 24270.
22550.
27439.
24868.
20335. | 27776.
26263.
30155.
26242.
32876. | VACANT
(AVATL)
ACRES | 3416. | 1701.
1811.
911. | 458.
133.
326.
19. | 540.
635.
348.
596.
704. |
| 105 PESTWOON | | 1950 | 1980 415H
1980 100
1900 115H | 2000 UICH
2010 UICH
2010 UICH
2010 UICH
2020 UICH
2020 UICH | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 LPW | | 1960 | 1980 HICH
1990 HIGH
1990 HIGH | 2000 41GH
2010 LCW
2010 LCW
2020 41GH
2020 41GH
2020 LCW | 2027 UTCH
2027 LOW
2040 HIGH
2050 HTCH
2050 TCH |

METROPOLITAN DISTPICT COMMISSION--MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYNT | 3631. | 9248.
8999.
8612.
7883. | 8794.
8304.
8936.
8029.
8852. | 9257.
7734.
9955.
7908.
10158. | ST ST | ; | | | |
|--------------|----------------------------------|--------|---|---|--|-------------------------------|--------------|-------------------------------------|---|--|
| | INDUST./
NON-4FG.
EMPLOYNT | 1784. | 3328.
2760.
3323.
3017. | 3434.
3350.
3604.
3599.
3495. | 3837.
3718.
4108.
3935.
4233. | TOTAL ACPES | 11341. | | | |
| | MANUF G | •• | ·°° | | | PESTRICT
OPEN
SPACE AC | 2106. | 2123.
2121.
2149.
2139. | 2156.
2140.
2166.
2143.
2168. | 2168.
2143.
2170.
2143.
2172. |
| | MANUF G | 328. | 199.
172.
280.
234. | 289.
237.
285.
230.
271. | 283.
135.
287.
125.
311. | STREFTS/
HICHWAYS
ACRES | 1086. | 1268.
1268.
1313. | 1327.
1290.
1344.
1291.
1343. | 1342.
1268.
1353.
1270.
1358. |
| | MANUF 'G | 625. | 968.
763.
1043. | 1041.
810.
1042.
767.
919. | 619.
400.
408.
260.
299. | EXTENSIV
INSTITUT
ACRES | 139. | 139.
139.
139. | 139.
139.
139.
139.
139. | 139.
139.
139.
139. |
| | HIGH
INCOME
HH'S | 2402. | 2776.
2745.
2798.
2731. | 2737.
2585.
2669.
2440.
2582. | 2500.
2000.
2500.
2500.
2500.
2700. | INDUST'L
ACRES | 430. | 430.
430.
430. | 430.
430.
430.
430.
430. | 430.
430.
430.
430.
430. |
| | PPPER MINDLE | 4080. | 4679.
4623.
4720. | 4584.
4393.
4418.
4189.
4204. | 4000.
3500.
3500.
4000. | NET IND/
NON-MFG 1 | 51.
97. | 200.
162.
199.
179. | 207.
201.
218.
212.
218. | 234.
226.
252.
240.
260.
248. |
| | LOWER HTOOL . | 5291. | 7344.
7223.
8234.
7886. | 8887.
8391.
9460.
8767.
9914. | 10202.
9089.
10586.
9116.
10977. | MANUF GACRES | 151. | 134.
128.
139. | 139.
131.
139.
126.
102. | 94.
73.
50.
64. |
| | I NC CHE | 1138. | 1966.
1929.
2256.
2147. | 2518.
2367.
2763.
2554.
3094. | 3400.
3459.
3400.
3400.
3400. | MERCIAL
ACPES | 786. | 744.
724.
693. | 705.
662.
714.
640.
708. | 735.
616.
781.
627.
795. |
| | TOTAL
EMPLOY- | 5524. | 13744.
12696.
13255.
11940. | 13657.
12701.
13866.
12544.
13642. | 13996.
11987.
14758.
12229.
15001. | NET 9 ES- | 3361. | 4440.
4379.
4765. | 4850.
4620.
4972.
4657.
5001. | 4964.
4577.
4991.
4578. |
| | TOTAL
HOUSE-
HALDS | 12910. | 16765.
16521.
18008.
17365. | 18726.
17736.
19310.
17950.
19794. | 20102.
17989.
20545.
18016.
20877. | . JSED. | 3855. | 5518.
5392.
5795.
5556. | 5901.
5614.
6043.
5634.
6051. | 6026.
5485.
5097.
5496.
6131. |
| пти | POPULA-
TION | 48177. | 57573.
56745.
61801.
59614. | 62369.
59103.
64295.
59807.
63913. | 64898.
58137.
64264.
56422.
65291.
56466. | VACANT
(AVATL)
ACRES | 3724. | 1844.
1991.
1513.
1796. | 1384.
1728.
1219.
1704.
1209. | 1235.
1875.
1151.
1862.
1111. |
| 106 WEYWOUTH | | 1940 | 1980 HIGH
1980 LOW
1980 LOW
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HICH
2040 HICH
2040 HICH
2040 HICH
2050 HICH
2050 HICH | | 1950
1970 | 1980 HIGH
1980 I CM
1990 HIGH | 2020 HIGH
2013 HIGH
2011 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HTCH
2030 LOW
2040 HTCH
2050 HTCH
2050 HTCH
2050 LOW |

METPOPOLITAN DISTPICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMER- | CIAL | 5310. | 10000.
10000.
16111.
13703. | 18029.
16443.
20967.
17902.
24228. | 26490.
20487.
29913.
22010.
31700. | SCOES | 10957. | | | |
|-----------------------|------------------------|--------|--------------------------------------|--|---|-------------------------------|--------|------------------------------------|---|---|
| INDUST./ | NON-MFG. | 388. | 3500.
3500.
5000.
5000. | 5614.
6112.
6584.
7030.
7258. | 8025.
8256.
8874.
8876.
9414. | TOTAL ACPES | 10 | | | |
| | EMPLOYMT | •• | | | | PESTRICT
OPEN
SPACE AC | 918. | 956.
954.
976. | 985.
980.
997.
1002. | 1002.
1007.
1012.
1012. |
| | MANUF'G
EMPLOYMT | 1347. | 1179.
926.
1120.
846. | 996.
736.
818.
574.
600. | 405.
250.
263.
162.
171. | STREETS/
HIGHWAYS
ACRES | 738. | 1015.
1001.
1179. | 1115.
11189.
1146.
1347. | 1361.
1273.
1419.
1598.
1449. |
| . 787. | MANUE . G
E MPLOYMT | 309. | 2204.
1896.
2321.
1965. | 2319.
1967.
2333.
1976.
2357. | 2423.
2022.
2458.
2026.
2257.
1948. | EXTENSIV
INSTITUT
ACRES | :: | | | |
| 1911 | INCOME | 481. | 1027.
996.
1378. | 1635.
1846.
1865.
2042.
1777. | 2175.
1820.
2293.
1861.
2511. | EXTENSIV
INDUST'L
ACRES | 381. | 381.
381.
381. | 381.
381.
381.
381. | 381.
381.
381.
381.
381. |
| Upper | MIDDLE
INC HH'S | 1014. | 1778.
1738.
2225.
2109. | 2573.
2398.
2859.
2604.
3118. | 3147.
3268.
2750.
3376. | NET IND/
NON-WEG
ACRES | 35. | 238.
238.
321.
321. | 356.
383.
409.
447.
470. | 489.
537.
537.
567. |
| LOVER | MIDDLE
INC HH'S | 1339. | 2395.
2344.
3004.
2817. | 3512.
3244.
3994.
4471. | 4766.
4041.
5209.
4139.
5645. | MET TND/ I | 48. | 298.
257.
300.
256. | 289.
246.
274.
232.
258.
216. | 246.
207.
237.
201.
211. |
| Š | | 375. | 673.
644.
1026. | 1258.
1132.
1448.
1286.
1639. | 1741.
1494.
1878.
1500.
2100. | MEPCIAL
ACPES | 337. | 436.
102.
597. | 785.
716.
913.
1055. | 1153.
901.
1381.
989.
1501. |
| TOTAL | -AL TAN | 6224. | 16883.
16322.
24553.
21514. | 25259.
30702.
27482.
34443. | 37343.
31215.
41508.
33074.
43542. | NET BES- | 1528. | 3089.
3033.
3249. | 3443.
3352.
3505.
3662.
3572. | 3512.
3151.
3567.
3162.
3633. |
| TOTAL | HOUSE- | 3121. | 5873.
5722.
7633.
7154. | 8978.
8298.
10148.
9152.
11269. | 11829.
10098.
12649.
10250.
13632. | .USED. | 1842. | 4062.
3964.
4653.
4423. | 4873.
4609.
5192.
4970.
5422.
5077. | 5432.
4762.
5722.
4889.
5911. |
| WIL WINGT ON
TOTAL | -NOTT | 12475. | 22317.
21743.
28241.
26484. | 33217.
30701.
32947.
39443. | 40218.
34332.
41742.
33924.
43621. | VACANT
(AVATL)
ACPES | 1077. | 4657.
3838.
4110. | 3576.
3782.
3197.
3519.
2804. | 2410.
3546.
2427.
3394.
2203. |
| 107 4114 | | 1940 | MUT 0661
MUT 0661
MUT 0861 | 2000 HICH
2010 HICH
2010 HICH
2010 LOW
2020 HICH
2020 LOW | 2030 HIGH
2070 LOW
2040 HIGH
2040 LOW
2050 HIGH | | 1960 | 1980 HICH
1980 LOW
1990 HIGH | 2000 LICH
2000 LOW
2010 HICH
2010 LOW
2020 HICH
2020 LOW | 2030 HTCH
2040 LOW
2040 HTCH
2040 LOW
2050 HTCH
2050 LOW |

METENPOLITAN NISTELCT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2950

| | COMMER-
CTAL
EMPLOYMT | 2033. | 1. 2022.
1. 1431.
5. 977. | 1300.
1200.
5. 900.
1100.
3. 900. | 1200.
1000.
1400.
5. 1200.
1568.
6. 1573. | TOTAL ACPES | 4019. | | | |
|------------|---------------------------------|--------------|--|---|--|--------------------------------|--------------|--|--|---|
| | INDUST./
NON-MFG. | 578.
650. | 1110.
921.
1057. | 1062.
1006.
992.
975. | 1040.
1155.
1185.
1279. | TOTAL | | | | |
| | VERY WET
MANUE'G
EMPLOYMT | •• | • • • • | •••• | | RESTRICT
OPEN
SPACE AC | 1065. | 1075.
1075.
1075. | 1080.
1088.
1080.
1088.
1084. | 1084.
1084.
1084.
1086.
1086. |
| | MANUF G | 118. | 290.
242.
256.
217. | 147.
147.
147.
185.
141. | 144.
120.
147.
110.
95. | STREETS/
HIGHWAYS
ACP FS | 429. | 503.
502.
494. | 500.
492.
498.
494. | 493.
481.
491.
469.
497. |
| | MANUF G | 567. | 400.
200.
200. | 203.
99.
102.
0. | 200. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 2438. | 2732.
2702.
2272.
2313. | 2040.
2153.
1751.
1922.
1468. | 968.
1166.
792.
950.
774. | EXTENSIV
INDUST'L
ACRES | 37. | 37.
37.
37. | 37.
37.
37.
37. | 37.
37.
37.
37. |
| | WIDDLE
THE HH'S | 1202. | 2310.
2261.
2452.
2234. | 2623.
2316.
2599.
2352.
2606. | 2512.
2037.
2343.
1722.
2451.
1745. | NET IND/
NON-MFG
ACR ES | 10. | 33.
26.
31.
26. | 32.
29.
31.
28.
29. | 34.
42.
48.
50. |
| | LOWER MIDDLE | 1303. | 2014.
1970.
2289.
2117. | 2556.
2318.
2734.
2468.
2919. | 3181.
2780.
3322.
2804.
3574. | NET IND/
WANJF G
ACPFS | | 8 ° | 4 6 6
8 4 6 | |
| | INCOME
HH.S | 425. | 320.
317.
449.
414. | 540.
709.
627.
931. | 1230.
1124.
1182.
937.
966. | NET COM-
MERCIAL
ACPES | 112. | 85.
81.
57. | 52.
48.
36.
44. | 48.
61.
53.
72. |
| | EMPLOY- | 3296. | 3922.
3585.
2944.
2309. | 2707.
2347.
2437.
2162.
2188. | 2384.
2175.
2702.
7495.
3142. | NET RES-
IDENTIAL
ACRES | 1670. | 2278.
2290.
2250.
2121. | 2314.
2276.
2238.
2239.
2284. | 2242.
2140.
2168.
1931.
2189. |
| | HOUSE-
HOLDS | 5368. | 7375.
7250.
7463. | 7816.
7328.
7793.
7924. | 7900.
7137.
7639.
6413.
7765. | .JSED.
ACRES | 1770. | 2404.
2405.
2344.
2192. | 2402.
2351.
2318.
2310.
2358. | 2326.
2220.
2273.
2033.
2316. |
| WINCHESTER | POPULA-
TION | 19376. | 25237.
24911.
24788.
23521. | 25955.
24343.
25100.
23743.
24726. | 24650.
22192.
23842.
29043.
24231. | VACANT
(AVATL)
ACRES | 719. | 0.
69.
239. | 92.
92.
96.
46. | 79.
193.
134.
392.
83. |
| 108 WINCH | | 1940
1970 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LCW | 2030 416H
2040 LTW
2040 LTW
2040 LTW
2050 HIGH
2050 LTW | | 1960
1970 | 1980 HICH
1980 LIW
1990 HICH
1990 LIW | 2000 HIGH
2000 LCW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METPOPOLITAN DISTOICT COMMISSION--MASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMES-
CIAL
EMPLOYWT | 1186. | 1289.
1212.
910.
666. | 1047.
898.
1406.
11116.
1851. | 2387.
1767.
2559.
1974.
2579. | SES | 13. | | | |
|--------------|-----------------------------|--------------|--------------------------------------|---|---|-------------------------------|--------------|-------------------------------------|---|--|
| | INDUST./
NON-MFG. | 193. | 395.
330.
327.
275. | 382.
388.
511.
519.
614. | 789.
833.
898.
841. | TOTAL ACRES | 1043 | | | |
| | MANUF G | •• | | •••• | | RESTRICT
OPFN
SPACE AC | 305. | 281.
281.
281.
281. | 281.
281.
281.
281.
281.
291. | 282.
281.
282.
281.
283. |
| | MANUF.G | 122. | 666.
57.
55. | .0.23.
0.7. | | STREETS/ PHIGHWAYS | 94. | 80.
77.
74. | 72.
69.
76.
73.
81. | 94.
82.
97.
102. |
| | MANUE S
EMPLOYMT | 63. | | 0 K 0 E | 37.
29.
51.
200.
200. | EXTENSIV
INSTITUT
ACRES | 67. | 61.
61.
61. | 61.
61.
61.
61. | 61.
61.
61.
61.
61. |
| | HIGH
INCOME
HH'S | 1227. | 987.
902.
880.
878. | 894.
872.
938.
1312. | 1473.
1209.
1669.
1277.
2218. | EXTENSIV
INDUST*L
ACRES | 86. | 79.
79. | .97
.97
.97
.97 | 79.
79.
79.
79. |
| | WINDLE
WINC HH'S | 1357. | 1491.
1488.
1360.
1346. | 1199.
1167.
1127.
1061.
1098. | 1288.
1001.
1404.
1010.
1591. | NET IND/
NON-MEG
ACR ES | | . 4 . F. | 11.
19.
20.
26.
26. | 38.
41.
45.
41.
50. |
| | LOWER MINDLE | 2403. | 2187.
2175.
2132.
2133. | 1851.
1893.
1562.
1653.
1249. | 841.
866.
673.
693.
538. | MET IND/
MANUF G
ACRES | 3. | | | 1. 0.
1. 2. 1. |
| | AU1 | 944.
845. | 830.
834.
812. | 833.
813.
778.
739. | 567.
475.
454.
831. | MET COM-
MET TAL
ACPES | 91. | 91:
85.
64. | 73.
67.
77.
127. | 163.
120.
174.
134.
175. |
| | EMPL DY- | 1564. | 1750.
1599.
1792.
989. | 1447.
1311.
1920.
1646.
2475. | 3213.
2604.
3443.
2912.
3620. | NET RES-
INENTIAL
ACRES | 345. | 314.
310.
312.
305. | 276.
265.
251.
232.
231. | 261.
226.
263.
213.
300. |
| | 7774L
HOUSE- | 5932. | 5406.
5395.
5706.
5169. | 4778.
4731.
4441.
4375.
4098. | 4193.
3644.
4221.
3433.
5178. | ·USED. | 442.
527. | 414.
400.
384. | 350.
339.
367.
384. | 462.
386.
479.
393.
518.
465. |
| acar | TOTAL
PODULA-
TION | 20303. | 17099.
17364.
15960.
15849. | 14574.
14535.
13663.
17225. | 12501.
17908.
12582.
10297.
15358. | VACANT
(AVATL)
AFRES | 50. | 128.
145.
155.
197. | 190.
215.
179.
224.
157. | 55.
154.
144.
0.
58. |
| dranthin ool | 1000 | 1960 | MU 1 0061 | 2000 HIGH
2010 HIGH
2010 HIGH
2010 HIGH
2020 HIGH | 2030 HIGH
2050 HIGH
2050 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1990 HIGH
1990 HIGH
1990 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2010 LOW
2020 HIGH
2020 LOW | 2030 4164
2030 LCW
2040 4164
2040 LOW
2050 4164
2050 1 CW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
FMPLOYMT | 2026. | 6000.
00. 6000.
1941. | 22. 7203.
14. 6776.
14. 7963. | 17. 6469.
9245.
59. 6759.
02. 7355. | TOTAL ACRES | 6390. | | | |
|------------|-----------------------------------|--------|--|--|---|--------------------------------|-------|-------------------------------------|---|---|
| | INDUST./
NON-MFG.
EMPL OYMT | 967. | 4000.
4805.
4925. | 4720.
5022.
4766.
5014.
4550. | 4693.
4817.
4912.
5002. | TOTA | | | , | |
| | VERY WET
MANUF 'G
EMPLOYMT | •• | ••• | | | DPEN
OPEN
SPACE AC | 1169. | 1169.
1160.
1160. | 1169. | 1170. |
| | MANUF G | 1321. | 1382.
1088.
1418.
1091. | 1363.
1032.
1270.
945.
1155. | 1035.
559.
946.
949.
234. | STREETS/
HIGHWAYS
ACRES | 172. | 957. | 1017.
992.
1025.
1020. | 1004.
926.
1005.
989. |
| | MANUF G | 2119. | 3337.
2852.
3112.
2641. | 2700.
2250.
2350.
1850.
2000.
1500. | 1483.
1073.
1013.
726.
684. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 1288. | 2257.
2220.
2490.
2405. | 2617.
2499.
2704.
2544.
2746. | 2556.
2085.
2352.
1736.
2174. | EXTENSIV
INDUST .L
ACRES | 549. | 549.
549.
549. | 549. | 549.
549.
549.
549. |
| | UPPER
MIDDLE
INC AH'S | 2506. | 3432.
3375.
3779. | 3957.
3771.
4059.
3822.
4011. | 3475.
2805.
2992.
2335.
2498. | NET IND! E | .69. | 226.
226.
253.
257. | 260.
250.
250.
259.
238. | 243.
248.
250.
252.
253. |
| | LOWER
MI DOLE
INC HH'S | 3696. | 5229.
5135.
6056.
5763. | 6685.
6270.
7261.
6673.
7774. | 6960.
8329.
6994.
8638. | MET IND/
MANUF G
ACRES | 223. | 287.
255.
276.
241. | 247.
212.
221.
181.
192. | 153.
106.
122.
74. |
| | INCOME
HH'S | 911. | 1392.
1355.
1688.
1584. | 1917.
2126.
1938.
2320. | 2791.
2297.
2831.
2292.
2363.
1905. | WERCIAL
ACRES | 137. | 405.
405.
534.
476. | 535.
539.
539.
535. | 566.
435.
621.
648. |
| | EMPL DY- | 6433. | 14719.
13939.
17275.
15731. | 16746.
15506.
16409.
14584.
15668. | 15634.
12919.
16166.
12809.
16291. | NET PES-
IDENTIAL
ACRES | 2139. | 3093.
3060.
3375.
3295. | 3463.
3368.
3587.
3458.
3625. | 344.
3416.
2874.
3244. |
| | HOUSE-
HOLDS | 8300. | 12313.
12085.
14013.
13393. | 15176.
14317.
16150.
14978.
16850.
15289. | 16793.
14148.
16505.
13357.
15673. | *USED * | 2568. | 4010.
3945.
4438.
4270. | 4494.
4325.
4596.
4590.
4250. | 4478.
3832.
4410.
3655.
4245. |
| Za | PIDULA-
TION | 31214. | 43293.
42508.
47853.
45746. | 51808.
48985.
53504.
54128.
54128. | 53947.
45483.
53025.
42950.
50362. | VACANT
(AVATL)
ACPES | 3340. | 1713.
1788.
1228.
1422. | 1166.
1361.
1051.
1331.
1060. | 1228.
1916.
1256.
2112.
1437.
2301. |
| 110 Mediba | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 I CW
2010 HIGH
2010 I CW
2020 HIGH
2020 L CW | 2030 HIGH
2030 LCW
2040 LCW
2050 HIGH
2050 HIGH | | 1960 | 1990 HTGH
1990 HTGH
1990 HTGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2020 LIGH
2020 LIW
2040 LIGH
2040 LIW
2050 HIGH |

METOPORITAN DISTRICT COMMISSION-WASTEMATER STUDY ACTIVITY HISTORY AND FMPIPIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 677. | 1343.
1282.
2027.
1693. | 3285.
3274.
5979.
4900.
9003. | 12240.
8483.
16070.
10390.
18891. | ACRES | 14515. | | | |
|-------------|----------------------------------|--------|-------------------------------------|--|--|-------------------------------|--------|-------------------------------------|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT | 60. | 580.
479.
846.
743. | 1219.
1330.
2052.
2137.
2726.
2782. | 3740.
3609.
4718.
4372.
5562. | TOTAL A | 149 | | | |
| | VERY WET MANUE'S | •• | .1.00 | | | RESTRICT
NPEN
SPACF AC | 1210. | 1210.
1210.
1210.
1210. | 1227.
1226.
1246.
1242.
1262. | 1269.
1283.
1283.
1304. |
| | MANUF.S
EMPLOYMT | 19. | | | | STPEETS/
HIGHWAYS
ACRES | 278. | 362.
357.
418. | 487.
579.
545.
666. | 739.
640.
832.
683.
923. |
| | MANUF G | 426. | 1000.
1000.
1487.
1289. | 3228.
1365.
3370.
1532.
3550.
1721. | 3975.
2082.
4179.
2238.
3648. | EXTENSIV
INSTITUT
ACRES | :: | | | |
| | HIGH
INCOME
HH'S | 219. | 497.
481.
774.
725. | 1065.
964.
1387.
1168.
1747. | 2368.
1791.
2742.
1962.
3514. | EXTENSIV I INDUST'L ACRES | 329. | 329.
329.
329. | 329.
329.
329.
329.
329. | 329.
329.
329.
329.
329. |
| | HOPER WINCHHIS | 335. | 603.
591.
900.
836. | 1301.
1787.
1787.
2354. | 3164.
2530.
3752.
2595.
4410.
2790. | NET IND/
NON-MFG
ACP ES | 25. | 121.
114.
140.
132. | 166.
226.
232.
274. | 346.
416.
392.
477. |
| | LOWFR MIDDLE | 557. | 626.
615.
853.
793. | 1130.
1028.
1484.
1289.
1915. | 2621.
2069.
3264.
2235.
3944. | MANIF G | ;; | 13.
13.
20. | 47.
18.
49.
21.
52. | 58.
29.
62.
32.
54. |
| | LOW | 168. | 307.
297.
376. | 486.
459.
618.
762.
674. | 928.
810.
1049.
815.
1610. | MERCIAL
ACPES | 317. | 343.
339.
389. | 473.
652.
581.
854. | 1070.
819.
1325.
946.
1513. |
| | EMPL CY- | 1163. | 2923.
2763.
4360.
3725. | 7732.
5970.
11409.
8569.
15286. | 19955.
14174.
24968.
17000.
28101.
20139. | NET RES-
IDENTIAL | 750. | 1212.
1194.
1634.
1584. | 2045.
2528.
2370.
2933. | 31.09.
2643.
34.54.
2724.
39.88. |
| | TOTAL
HOUSE-
HOLDS | 1280. | 2033.
1994.
2902. | 3982.
3606.
5275.
4523.
6778. | 9081.
7199.
17877.
13479. | ACRES | 1906. | 1689.
1659.
2183.
2100. | 2732.
2633.
3456.
3203.
4113. | 4584.
3829.
5257.
4094.
6032. |
| HAV | Proul A- | . 4647 | 8846.
8681.
11513. | 15075.
13835.
19342.
15962.
24302.
19918. | 3094.
24973.
36515.
26778.
45066. | VACANT
(AVAIL)
ACRES | 11692. | 10925.
10959.
10375. | 9741.
9852.
8905.
9197.
8145. | 7594.
8463.
6814.
8150.
5927. |
| 111 WESTHAN | | 1960 | 1980 HIGH
1981 COPI
1990 HIGH | 2000 HICH
2000 LINE
2010 LINE
2010 LINE
2020 HICH
2020 LINE | 2030 HICH
2040 HICH
2040 HICH
2040 LOW
2050 HICH
2050 LOW | | 1960 | 1980 HIGH
1980 HIGH
1990 HIGH | 2009 HTGH
2001 LTW
2010 HTGH
2020 HTGH
2920 HTGH | 2030 HTCH
2030 LOW
2040 HTCH
2040 LOW
2050 HTCH
2050 HTCH |

METONDOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMED-
CTAL
EMPLOYMT | 194174. | 243000.
243000.
250000.
250000. | 250000.
245000.
250000.
250000.
250000. | 248000.
232000.
247763.
230000.
245000. | ICRES | 2099. | | | |
|---------------|-----------------------------------|---------|--|--|--|-------------------------------|-------|--|---|--|
| | INDUST./
NON-MFG.
EMPL JYMT | 58842. | 77000.
77000.
73526. | 73000.
75000.
72500.
72000. | 68653.
68210.
66916.
67277.
61797. | TOTAL ACRES | 2 | | | |
| | VFRY WET MANUF'S | 672. | 638.
601.
503.
515. | 350.
350.
351.
351.
353. | 355.
350.
350.
350.
350. | P FSTRICT
OPEN
SPACE AC | 409. | 398.
398.
398. | 398.
398.
398.
398. | 399.
401.
399.
401.
399. |
| | MANUF G | 7786. | 4000.
4000.
1825.
1833. | 1950.
1800.
2050.
1700.
2200. | 2100.
1500.
2100.
1500.
2200. | STREETS/
HIGHWAYS
ACPES | 616. | 608.
608.
606. | 607.
607.
607.
607. | 607.
608.
611.
602. |
| | MANUF G | 26988. | 10000.
10000.
7000. | 6600.
7000.
7000.
7000. | 6500.
6200.
6000.
6000. | EXTENSIV OF INSTITUT H | 13. | 12.
12.
12. | 12.
12.
12.
12.
12. | 12.
12.
12.
12.
12. |
| | HIGH
INCOME
HH'S | 5348. | 11183.
10710.
14210.
13639. | 16858.
21560.
23894.
26523. | 30000.
43828.
35000.
46911.
40343. | EXTENSIV INDUST'L ACRES | 94. | 91.
91.
91. | 91.
91.
91.
91. | 91.
91.
91.
91. |
| | UPPED
MIDDLE
INC HH'S | 5596. | 5679.
5545.
7954.
7698. | 11069.
10812.
14759.
13985.
20282.
18054. | 31039.
31617.
40138.
40812.
45686. | NET IND/
NON-MEG | 260. | 135.
135.
129.
136. | 128.
132.
127.
128.
126. | 121.
120.
117.
118.
108. |
| | LOWER MIDDLE | 16530. | 8270.
8269.
5681.
6032. | 4643.
4769.
4274.
4103.
4031. | 2998.
1951.
2538.
1652.
2151. | MET IND/
MANUF G
ACR ES | 150. | 20.
20.
13. | 13.
12.
13.
13. | 12.
12.
11.
11. |
| | I NCOWE
HH . C | 11563. | 5545.
5532.
4825.
4905. | 4501.
4331.
4376.
3943.
4286. | 3314.
2185.
2806.
1850.
2378. | MERCIAL
ACRES | 390. | 650.
650.
648.
651. | 647.
636.
646.
621.
646. | 635.
597.
631.
591.
616. |
| | FMPL CY- | 288462. | 334638.
334601.
332854.
336620. | 332300.
328750.
331901.
370851.
331553. | 325608.
308063.
323329.
305130.
315347. | NET PES-
IDENTIAL
ACRES | 167. | 185.
185.
196. | 203.
208.
204.
226.
205. | 222.
257.
229.
263.
221. |
| | HOUSE- | 39037. | 30677.
30056.
32671. | 37072.
38531.
44970.
45925.
55122. | 67351.
79581.
80482.
91225.
90558. | ·USED. | 967. | 990.
990.
986. | 991.
988.
991.
990. | 989.
985.
988.
957. |
| PASTON PROPER | POPULA-
TION | 82495. | 71743.
70439.
75930.
75096. | 85172.
88234.
101759.
103765.
123077. | 148759.
174442.
176334.
198894.
197494. | VACANT
(AVATL)
ACRES | •• | | • • • • • | |
| 112 pnsTr | | 1950 | 1980 HIGH
1980 HIGH
1990 HIGH | 2000 HIGH
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH
2020 LOW | 2030 HIGH
2040 HIGH
2040 LOW
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2040 LOW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTPICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPTRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMED-
CIAL
EMPLOYMT | 10875. | 12111.
11671.
10127.
9733. | 10000.
8700.
10000.
8600.
10099. | 10000.
8000.
10000.
10000. | CPES | 2887. | | | |
|-----------|----------------------------------|--------|---|---|---|-------------------------------|--------------|---|--|--|
| | INDUST./
VON-WEG.
EMPLOYMT | 5339. | 9184.
7632.
8467.
7417. | 8250.
7200.
7950.
7700. | 7500.
6800.
7500.
7700.
6800. | TOTAL ACPE | 28 | | | |
| | VERY WET MANUF & | 66. | 58.
53.
26. | | | RESTRICT
OPEN
SPACE AC | 385.
358. | 358.
358.
358.
358. | 358.
358.
358.
358. | 358.
358.
358.
358.
358. |
| | MANUF & | 769. | 391.
297.
340. | 342.
341.
300.
338. | 341.
195.
343.
146.
332. | STPEETS/
HIGHWAYS
ACPES | 623. | 577.
567.
542.
520. | 538.
512.
535.
534.
532. | 527.
482.
520.
479.
516. |
| | MANIJE G | 2665. | 1924.
1293.
1775.
1219. | 1850.
1350.
1950.
1450.
2000. | 1808.
1500.
1700.
1500.
1600. | EXTENSIV
INSTITUT
ACRES | 7: | | . , , , , | |
| | HIGH
INCOME
HH'S | 3469. | 3002.
3002.
2498.
2558. | 2252.
2164.
2152.
1914.
2074. | 1765.
1109.
1474.
919.
1228. | EXTENSIV
INDUST L
ACRES | 133. | 124.
124.
124.
124. | 124.
124.
124.
124.
124. | 124.
124.
124.
124.
124. |
| | SIPH ONI | 5673. | 4163.
4191.
3093.
3233. | 2727.
2614.
2614.
2292.
2556. | 2206.
1386.
1842.
1148.
1535. | NET IND/
NON-MEG
ACRES | 87. | 102.
95.
94. | 91.
98.
87.
85. | 83.
83.
81.
84. |
| | NI DOLE | 19217. | 10392.
10280.
10335.
10092. | 10128.
9525.
9816.
9005.
9297. | 6923.
6923.
6000.
6000. | MANIJE G
ACPES | 65. | 41.
28.
37. | 38.
29.
40.
40. | 37.
35.
33. |
| | INC OME
HH'S | 3378. | 4487.
4435.
4482.
4367. | 4431.
4178.
4366.
4030.
4281. | 4500.
3200.
4700.
5202.
3500. | NET COM-
MERCIAL
ACRES | | 731.
704.
611.
527. | 604.
525.
604.
519.
604. | 604.
483.
604.
483.
604.
516. |
| | FMPI OY- | 19714. | 23658.
20947.
20734.
17668. | 20442.
17550.
20241.
17350.
20038. | 19649.
16495.
19543.
16146.
19632.
16995. | NET BES-
INFNTIAL
ACOES | 882. | 789.
781.
702.
683. | 686.
609.
643.
548.
639. | 605.
422.
540.
504.
405. |
| | T074L
H0USE-
H0L9S | 22753. | 27044.
21907.
23407.
23250. | 19539.
18486.
18948.
17242.
18308. | 15747.
11695.
1494°.
11257.
13965. | ACP S | 1739. | 1663.
1609.
1444.
1328. | 1419.
1252.
1394.
1184.
1368. | 1329.
1262.
999.
1225. |
| MOTH? TOR | PODULA-
TION | 64282. | 61770.
41414.
57515.
57105. | 55256.
52521.
53727.
492.85.
52056. | 47993.
24863.
4334.
33750.
40766. | VACANT
(AVATL)
ACPES | •• | 158.
222.
413.
549. | 441.
635.
469.
710.
598. | 542.
897.
617.
920.
657. |
| 113 8019 | | 0761 | Mul 1 0861
Mul 1 1861
Hull 1 0861 | 2000 HIGH
2000 LCW
2010 HTGH
2010 LCW
2020 HTGH | 2030 HTCH
2040 LTCH
2040 LTCH
2050 HTCH
2050 HTCH | | 1960 | 1980 HICH
1980 HICH
1990 HICH
1990 LOW | 2000 HIGH
2003 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 HIGH | 2010 HIGH
2010 LOW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 4625. | 3797.
3474.
3000. | 3300.
3100.
3650.
3750.
4000. | 3800.
3400.
3800.
4000. | ACP ES | 7. | | | |
|-------------|------------------------------------|--------|--------------------------------------|--|--|-------------------------------|------|--|--|--|
| | INDUST./
NON-MFG.
EMPLOYMT E | 5327. | 8747.
7279.
7500. | 7300.
7150.
6800.
7000. | 7000.
6800.
7500.
7000.
8000. | TOTAL AC | 101 | | | |
| | VERY WET I | 266. | 267.
266.
263.
271. | 174.
175.
175.
177. | 180.
181.
187.
191.
184. | PESTRICT
OPEN
SPACE AC | 156. | 148.
148.
148. | 148.
148.
148.
148. | 148.
148.
148.
148. |
| | MANUF G | 3074. | 1100.
844.
269.
191. | 500.
350.
700.
500.
900. | 605.
465.
398.
302.
259. | STREETS/
HIGHWAYS
ACRES | 151. | 149.
138.
131.
136. | 132.
133.
135.
137.
131. | 134.
132.
137.
143. |
| | *DRY *MANUF *G | 10662. | 4381.
2138.
3145.
1500. | 3400.
1900.
3700.
2350.
4000. | 3500.
2700.
3800.
2700.
4000. | EXTENSIV
INSTITUT
ACRES | 86. | 81.
81.
81. | 81.
81.
81. | 81.
81.
81. |
| | HIGH
INCOME
HH'S | 820. | 374.
378.
327.
335. | 260.
291.
265.
257.
257. | 207.
131.
166.
105.
133.
84. | EXTENSIV
INDUST*L
ACRES | 79. | 75.
75.
75. | 75.
75.
75.
75. | . 25 . 25 . 25 . 25 . 25 . 25 . 25 . 25 |
| | MIDDLE
INC HH'S | 1385. | 679.
683.
661.
665. | 623.
605.
612.
547.
606. | 496.
348.
397.
278.
318. | NET IND!
NON-MFG
ACRES | 359. | 462.
420.
396.
426. | 385.
377.
376.
369. | 369.
384.
384.
398. |
| | LOWER
MIDDLE
INC HH'S | 2603. | 1588.
1603.
1533.
1546. | 1482.
1366.
1441.
1210.
1420. | 1100.
1100.
1750.
1000. | NET TND/
MANUF G
ACRES | 46. | 18.
10.
12. | 18.
25.
23.
33. | 28.
29.
29.
30. |
| | I NCOME
HH S | 1170. | 1146.
1132.
1196.
1169. | 1252.
1227.
1295.
1251.
1302. | 1300.
1000.
1250.
975.
1321. | MET COM-
MET TAL
ACPES | 114. | 81.
70. | 81.
74.
04.
107. | 102.
102.
115. |
| | EMPL OY- | 23954. | 18292.
14001.
14177.
12462. | 14674.
12629.
15375.
13079.
16077. | 15085.
13546.
15685.
13584.
16450. | NET DES-
IDENTIAL
ACRES | 91. | 47.
48.
47. | 46.
46.
46.
37. | 40.
29.
38.
27.
36. |
| | TOTAL
HOUSE-
HALDS | 5978. | 3787.
3796.
3717. | 3637.
3490.
3513.
3264.
3585.
2992. | 3103.
2229.
2913.
2108.
2772.
2106. | ACRES ACRES | 600. | 616.
558.
525.
549. | 531.
543.
526.
556.
556. | 539.
521.
553.
524.
580. |
| CHAGLESTOWN | TOTAL
PODULA-
TION | 20538. | 12085.
12113.
11497.
11489. | 11256.
10814.
11183.
10136.
10741.
8993. | 6809.
8793.
6458.
8384.
6452. | VACANT
(AVAIL)
ACRES | •• | 2.
71.
111. | 101.
101.
89.
109.
74. | 93.
114.
77.
110.
44. |
| 114 CHA91 | | 1960 | 1980 HIGH
1980 LIGH
1990 LIGH | 2000 HIGH
2010 HIGH
2010 LOW
2010 LOW
2020 LOW
2020 LOW | 2030 HIGH
2030 LM
2040 HIGH
2040 LM
2050 HIGH
2050 LM | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LCW
2020 LCW
2020 LCW | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMFR-
CIAL
T EMPLOYMT | . 13835. | 910. 15708.
7396. 15239.
545. 14073.
7644. 12789. | 200. 13700.
7500. 12500.
900. 13350.
7350. 12250.
600. 13000. | 73.00. 12500.
100. 12500.
7400. 11500.
7400. 11500.
7500. 13000. | L ACPES | 4296. | | | |
|----------------|---------------------------------|----------|--|---|--|--------------------------------|-------|--|---|---|
| | INDUST./
NON-MFG. | 4677 | | 92
75
76 | 3. 38 | TOTAL | | 8.
828.
8. | 99.
828.
100.
11. | 830.
830.
830.
11.
830. |
| | VERY WET
MANUE &
EMPLOYMT | 124. | 101 | | 5. 14
5. 11
5. 11 | RESTRICT
OPEN
SPACE AC | 855. | 4. 82
9. | 8 8 8 | |
| | MANUF G | 1441. | 1230.
1068.
1406.
1190. | 1407.
1173.
1407.
1100
1387. | 1337.
745.
1338.
496.
1299. | STREETS/
HIGHWAYS
ACRES | 877. | 874.
878
868. | 870.
873.
872.
875. | 847.
847.
832.
832. |
| | MANUF G | 4998. | 1500.
1500.
800. | 900.
800.
1050.
1200. | 1100.
700.
1000.
1000.
500. | FXTENSIV
INSTITUT
ACRES | • • | • • • • | | |
| | HIGH
INCOME
HH'S | 4936. | 3141.
3165.
3052. | 3828.
3717.
4963.
4633.
6812. | 25000.
2000.
2000.
1749.
1688. | EXTENSIV
INDUST'L
ACRES | 82. | 80°.
80°. | 80.
80.
80.
80. | 80°
80°
80°
80° |
| | UPPER
MIDDLE
INC HH'S | 7926. | 6511.
6512.
6902.
7001. | 7024.
7053.
7037.
7052.
7018. | 6931.
7163.
5852.
6043.
4939. | NET TND/
NDN-MFG
ACPES | 302. | 382.
396.
366. | 351.
409.
338.
401.
326. | 346.
403.
346.
366.
423. |
| | LOWER
MIDDLE
INC HH'S | 15027. | 16564.
16313.
18179.
17619. | 19920.
18855.
21451.
19954.
23272. | 24728.
22423.
24327.
20732.
23858. | NET TND/
MANUF'S
ACPES | 86. | 36.
29.
26. | 29.
29.
24.
30. | 28.
19.
27.
26. |
| | I NC OME
HH • S | 5590. | 7939.
7929.
7726. | 8142.
7645.
8668.
7606.
9351. | 10000.
7500.
9950.
8000.
10000. | MET COM-
MERCIAL
ACRES | 610. | 671.
651.
601. | 585.
57034.
5703.
5553. | 513.
491.
546.
579. |
| | CMD L OY- | 25075. | 27450.
25296.
24881.
22476. | 24236.
21996.
23732.
21521.
23208.
21118. | 22254.
20260.
22652.
20009.
23310.
20335. | NET RES-
IDENTIAL
ACP ES | 1477. | 1420.
1428.
1519.
1525. | 1546.
1544.
1570.
1561.
1595. | 1393.
1336.
1329.
1248.
1277. |
| | TOTAL
HOUSE-
HOLDS | 33479. | 34155.
33919.
35859.
35441. | 38915.
37269.
42118.
39245.
65454. | 44159.
39087.
42129.
36524.
40485. | · USED ·
ACRES | 2476. | 2509.
2509.
2515.
2514. | 2511.
2512.
2508.
2510.
2505. | 2279.
2248.
2247.
2167.
2248. |
| DOSCHESTER (D) | TOTAL
POUCA-
TION | 117133. | 112431.
111678.
117886.
116546. | 123772.
118570.
133703.
124795.
147142. | 135613.
120396.
129524.
112709.
124589. | VACANT
(AVAIL)
ACOES | •• | | | 254.
290.
286.
379.
280. |
| 115 000 | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 LIW | 2033 HICH
2040 HICH
2040 HICH
2050 HICH
2050 HICH | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LDW | 2000 HTCH
2000 LCW
2010 HTCH
2010 LCW
2020 HTCH
2020 LCW | 2030 HIGH
2040 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 LIW |

METPOPOLITAN DISTRICT COMMISSION--WASTFWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| COMMER-
CIAL
EMPLOYMT | 1066. | 782.
710.
298.
150. | 800.
700.
1400.
1250.
1816. | 1953.
2050.
2468.
2304.
2697. | S ES | 87. | | |
|-----------------------------------|--------|--------------------------------------|--|--|-------------------------------|-------------|--|---|
| INDUST./
NON-MFG.
EMPLOYMT | 305. | 492.
410.
415.
335. | 650.
629.
850.
1100. | 1125.
1134.
1245.
1238.
1288. | TOTAL ACPES | 1387 | | |
| VERY WET I | •• | 2.
0. | | ••••• | RESTRICT
OPEN
SPACE AC | 692. | 692.
692.
692.
692. | 692.
692.
692.
692.
692.
692.
692.
692. |
| WET.
MANUE.G | :: | 315.
272.
314.
314. | 321.
317.
319.
315.
317. | 317.
195.
249.
127.
162. | STPEFTS/
HIGHWAYS
ACRES | 157. | 142.
139.
127. | 138.
149.
149.
150.
156.
156.
163.
167. |
| *DRY *
MANUF *G
EMPLOYMT | •• | | •••• | 200. | EXTENSIV
INSTITUT
ACRES | :: | ، ف
ف | |
| HIGH
INCOME
HH'S | 913. | 156.
165.
58.
74. | 53.
76.
22.
89. | 94.
75.0.
60.0. | EXTENSIV
INDUST'L
ACRES | . v. | , v, v, | |
| UPPER
MIDDLE
INC HH'S | 1720. | 236.
263.
88.
117. | 95.
56.
147.
35.
226. | 281.
225.
180. | NET TND/
NON-MFG I | • • | 16.
10.
14. | 31.
45.
63.
65.
73.
74. |
| LOWER
MIDDLE
INC HH'S | 3767. | 2854.
2840.
2438.
2358. | 2229.
2016.
2140.
1803.
2068. | 1600.
1000.
1550.
1000.
1500. | NET IND/
MANUF G
ACRES | •• | . 8 . 6 | |
| LOW | 1510. | 2408.
2410.
1973.
1975. | 1866.
1702.
1883.
1551.
1943. | 1500.
1100.
1500.
1000.
1554. | NET COM-
MERCIAL
ACRES | 86.
110. | 63.
57.
24. | 58.
95.
95.
119.
115.
127.
161.
146. |
| TOTAL
EMPL NY- | 1371. | 1591.
1394.
1026.
799. | 1771.
1651.
2565.
2420.
3233. | 3395.
3379.
3961.
3669.
4347. | NET RES-
IDENTIAL
ACRES | 336. | 221.
218.
166.
153. | 172.
134.
180.
185.
102.
146.
141.
89.
139. |
| TOTAL
HOUSE-
HOLDS | 7910. | 5654.
5678.
4557.
4524. | 4244.
3810.
4247.
3411.
4325. | 3475.
2100.
3350.
2000.
3294. | .USED.
ACRES | 428. | 310.
294.
213.
182. | 269.
221.
329.
377.
347.
347.
393.
402. |
| DOOCHESTER (N) TOTAL POPULA- TION | 29934. | 19523.
19599.
16011.
15905. | 14585.
13241.
14595.
12004.
14838.
10971. | 11854.
1729.
11479.
7429.
11311. | VACANT
(AVATL)
ACRES | 105. | 239.
258.
350.
386. | 283.
337.
212.
296.
155.
156.
187.
143.
120. |
| 116 0000 | 1960 | 1980 HIGH
1990 LOW
1990 HIGH | 2000 HIGH
2000 LTW
2010 HIGH
2020 HIGH
2020 HIGH | 2020 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HTGH
1980 LCW
1990 HTGH
1900 LCW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH
2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 HIGH
2050 HIGH |

METONDOLITAN DISTRICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | CIMMED-
CIAL
CIAL | 4504. | 4168.
3915.
3100. | 3050.
2900.
3000.
2750.
3000. | 2880.
2552.
2994.
294.
2972. | Sado | 3689. | | | |
|-------------|-----------------------------------|--------|--------------------------------------|---|---|--------------------------------|--------------|--|--|--|
| | INDUST./
UNN-MEG.
EMPL TYMT | 2165. | 3771.
3134.
3443.
3015. | 3300.
2900.
3150.
2800.
3000. | 3500.
3500.
3500.
3500.
3500. | TOTAL ACPES | 36 | | | |
| | VERY WET MANUE .G | 17. | 30.
32.
68.
86. | 68.
69.
69. | | RESTRICT
OPEN
SPACE AC | 955. | 955.
955.
955. | 955.
955.
955.
955. | 955.
955.
955.
955. |
| | MANUE 'G | 192. | | | | STREETS/
HIGHWAYS
ACRES | 424. | 426.
415.
404. | 399.
393.
384.
388. | 384.
374.
391.
391. |
| | MANIF & | 666. | 39.
0.
150.
150. | 200.
150.
250.
150.
250. | 162.
105.
210.
200. | EXTENSIV
INSTITUT
ACRES | . 97
. 65 | 75.
16.
16. | . 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. | 76.
76.
76.
76. |
| | HIGH
INCOME
HH'S | 1217. | 972.
972.
990. | 1058.
1007.
1113.
1031.
1183. | 1364.
1306.
1409.
1509.
1509. | EXTENSIV
INDUST .L
ACRES | 1000. | 1000.
1000.
1000. | 1000.
1000.
1000.
1000.
1000. | 1000.
1000.
1000.
1000.
1000. |
| | UPPER
MIDDLE
INC HH'S | 2507. | 1832.
1825.
1533.
1543. | 1389.
1313.
1320.
1158.
1012. | 1034.
778.
856.
35. | NET IND/
NON-MEG
ACRES | 562. | 660.
618.
603. | 578.
551.
551.
557.
525. | 525.
532.
558.
558.
585. |
| | LOWER WYDDLE | 6832. | 6048.
5994.
5650.
5589. | 5024.
5024.
5343.
4544.
5269. | 4503.
2800.
4200.
3000.
3000. | MANUF G
ACRES | 42. | 3. 2. | . 10. 10. | 8 6 6 |
| | LOW | 2758. | 3254.
3222.
3115. | 3044.
2875.
3022.
2756.
3011. | 3000.
2000.
3000.
3000.
2500. | MEDCIAL
ACPES | 161. | 149.
140.
111. | 104.
104.
107.
107. | 103.
91.
111.
92. |
| | FMPL DY- | 7544. | 8907.
7082.
6761. | 6618.
6025.
6469.
5775.
6319. | 6112.
5427.
6672.
5641.
6756. | VET REC-
IDENTIAL | 362. | 324.
320.
294. | 254.
290.
290.
289. | 269.
187.
250.
250. |
| | TOTAL
HOUSE- | 13314. | 12106.
12013.
11289.
11169. | 10925.
10218.
10797.
9489.
13722. | 9904.
5884.
9465.
7319.
9214. | *USED. | 1127. | 1136.
1079.
1015. | 987.
959.
932.
829. | 915.
915.
932.
845.
979. |
| METSUB TOET | POPULA-
TION | 45076. | 33155.
32904.
30947.
30525. | 29967.
29622.
26089.
29418.
24083. | 27211.
19055.
26024.
29229.
25347.
20923. | VACANT
(AVATL)
ACRES | 107. | 95.
164.
238.
258. | 320.
325.
335.
341.
453. | 348.
334.
433.
339. |
| 111 6467 | | 1940 | Mul Cobi | 2001 416H
2005 1 0W
2010 416H
2010 1 0W
2020 416H | 2030 HIGH
2031 IUW
2040 HIGH
2040 LW
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 HIGH
1990 HIGH
1990 I IN | 2000 HIGH
2000 LTW
2010 HIGH
2010 LTW
2020 HIGH
2020 HIGH | 2030 HTCH
2030 LCM
2040 HTCH
2050 HTCH
2050 HTCH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

6193. 5760. 6622. 6008. 6739. 5200. 5250. 5850. 5350. 6000. 5942. 5786. 5554. 5049. COMMER-CIAL EMPLOYMT 4992. TOTAL ACRES 1944. 2653. 2653. 2744. 2876. 2840. 2000. 1913. 2222. 2203. 2400. 1512. 1250. 1778. 1582. I NDUST./ NON-MFG. EMPLOYMT .0. .0 0.0 0.0 .0 421. 29. 27. 15. 421. 421. 421. 421. 421 421. 421. 421. RESTRICT OPEN SPACE AC MANUF 6 421. 42. 353. 195. 229. 127. 149. 340. 3329. 319. 417. 362. 428. 370. 350. 350. 350. 350. 332. 318. 336. 340. 316. 341. 347. 329. 352. STREETS/ HIGHWAYS ACRES MANUE .G 359. 0.0 .. .0 .0 .0 .0 ... 790. 520. 1435. EXTENSIV INSTITUT ACRES 450. 402. 500. 400. 400. 395. MANIJF'S EMPLOYMT 600. 600. 400. 00 1666. 267. 196. 217. 157. 177. 57. 505. 420. 409. 359. 57. 57. 57. 948. 950. 635. 57. 57. 57. 57. EXTENSIV INDUST'L ACRES 57. 1985. 1138. 1148. 800. 845. 54. 61. 293. 362. 234. 295. 66. 70. 646. 573. 566. 536. 41. 33. 48. 76. NET IND/ NON-MFG ACRES MIDDLE INC HH'S 45. 2505. 10. 10. 13. 12. 3800. 2800. 3500. 2900. NET IND! MANUF'G ACRES LOWER MIDDLE 3896. 3858. 3744. 3637. 3748. 3332. 3799. 3902. 2865. 3000 26. 5202. 357. 388. 417. 377. 424. 347. 335. 376. 372. 363. 348. 316. 2500. 1700. 2800. 1900. 3000. 2402. 2235. 2426. 2128. 2490. 2559. 2559. 2406. 2381. MERCIAL ACRES 313. 2555. 470. 401. 9496. 8868. 10385. 9531. 405. 408. 303. 419. 269. 285. 392. 296. 393. 8550. 7866. 8922. 8265. 9350. NET RES-IDENTIAL ACRES 8501. 8024. 8176. 7413. 11163. 683. 555. EMPL DY-9049. 927. 896. 872. 807. 846. 707 873. 868. 398. 761. 923. 6879. 6972. 5314. HOUSE-HOLDS 8542. 8516. 7585. 7536. 6738. 6738. 7218. 5197. 5704. ACRES ACRES 1946. 1948. 307. 419. 285. 443. 253. 258. 420. 220. 376. 191. FRIUY-JMACA (D) POPULA-22442. 16578. 22059. 17164. 22329. 17521. 231. 250. 331. 23238. 21651. 23043. 23239. 18659. 26881. 26806. 24105. 23963. VACANT (AVAIL) ACRES 41. 41527. 1980 HIGH 1990 HIGH 1990 HIGH 2000 HIGH 2000 LOW 2010 HIGH 2020 HIGH 2020 HIGH 2040 HIGH 2050 HIGH 2050 HIGH 2050 LOW 1980 HIGH 1980 LIN 1990 HIGH 1990 LIN 2000 HIGH 2010 HIGH 2010 HIGH 2020 HIGH 2020 HIGH 2030 HIGH 2030 LOW 2040 HIGH 2040 LOW 2050 HIGH 2050 HOW 2030 HICH 2030 LOW 1960 1970 118

METRIPOLITAN NISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | COMMER-
CIAL
EMPLOYMT | 91. | % % % % % % % % % % % % % % % % % % % | 150.
250.
450.
700. | 508.
1090.
904.
1286.
1403. | Co ES | 625. | | | |
|----------------|----------------------------------|-------|---------------------------------------|--|--|--------------------------------|------|--|--|--|
| | INDUST./
NON-WEG.
EMPLOYMT | 1406. | 2076.
1729.
1833.
1582. | 1800.
1750.
1750.
1750.
1750. | 1635.
1643.
1670.
1670.
1674. | TOTAL ACO | • | | | |
| | MANUF G | :: | | | | PESTR ICT
DPFN
SPACE AC | 190. | | | 177.
177.
177.
178. |
| | MANIF G | •• | **: | | | STREFTS/
HIGHERYS
ACRES | :: | 81:
86: | 86.
87.
87.
81. | 87.
89.
100. |
| 7 - 0641 | MANIJE .G | :: | 321.
171.
0. | 300.
150.
100.
200. | 130.
84.
209. | I NSTITUT
ACRES | 66 | | | |
| | HIGH
INCOME
HH'S | 757. | 129.
151.
236.
233. | 245.
216.
223.
191.
211. | 178.
142.
114. | EXTENS IV
INDUST L
ACRES | •• | | | |
| | JODER MINDLE | 812. | 246.
266.
343. | 347.
319.
324.
293.
312.
262. | 267.
198.
214.
158.
171. | NET IND/
NON-MEG
ACDEC | 27. | 66.
59. | 58.
41.
56.
56. | 52.
53.
54.
55. |
| | LOWER WIDDLE | 964. | 971. | 915.
883.
718.
840.
613. | 600.
600.
600. | MANUF 6 | •• | | | |
| | INCOME | 315. | 328.
317.
376. | 372.
343.
411.
352.
457. | 445.
312.
184.
250.
673. | MERCIAL
ACRES | 24. | | 10.
17.
30.
27. | 73.
60.
86.
94. |
| | FMPLOY- | 95. | 2400.
1903.
1893.
1642. | 2250.
1950.
2150.
2150.
2350. | 2273.
2842.
2631.
2955.
3276. | TOENTIAL
ACPEC | 314. | 139.
136.
205. | 200.
165.
190.
190.
190. | 168.
106.
141.
94.
165. |
| | HOUSE- | 2848. | 1674.
1716.
1945.
1837. | 1879.
1698.
1943.
1554.
1819. | 1590.
1009.
1340.
887.
1559. | ACRES | 338. | 214.
185.
267.
247. | 276.
219.
257.
212.
278. | 227.
257.
257.
370. |
| FNWY-JMACA (W) | TOTAL
POPULA-
TION | 9552. | 5724.
5854.
6253. | 6359.
5797.
6353.
5992. | 5304.
3561.
4555.
3195.
5208. | VACANT
(AVATL)
ACRES | •• | 153.
156.
95.
119. | 93.
94.
15.
80. | 103.
134.
102.
135.
28. |
| 110 FNWY. | | 1943 | 1980 HICH
1990 LOW
1900 HICH | 2000 4164
2010 4164
2010 4164
2010 104
2020 4164 | 2030 HIGH
2030 LCW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LCW | | 1940 | 1980 1 CW
1980 1 CW
1990 HIGH
1900 1 CW | 2000 HIGH
2010 HIGH
2010 LOW
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2070 FM
7040 HIGH
2040 FM
7050 HIGH
7050 HIGH |

METODORLITAN DISTOICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMEP-
CIAL
EMPLOYMT | 2459. | 2470.
2352.
5000.
5000. | 4400.
4400.
4200.
3900.
3800. | 3400.
3400.
3700.
3800.
3400. | RES | | | | |
|-----------|----------------------------------|--------|--------------------------------------|---|---|--------------------------------|-------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 1467. | 2608.
2168.
3500. | 3250.
3100.
2750.
2800.
2400. | 2900.
2600.
2900.
2700.
3000. | TOTAL ACRES | 1940. | | | |
| | VERY WET
MANUF G
EMPLOYMT | 59. | 19. | | | RESTRICT
OPEN
SPACE AC | 408. | 345.
345.
345. | 345.
345.
345.
345.
345. | 345.
345.
345.
345. |
| | MANUF.G | 672. | 507.
419.
482.
412. | 450.
400.
350.
300. | 260.
195.
169.
127.
110. | STREETS/
HIGHWAYS
ACRES | 266. | 249.
240.
261.
260. | 317.
305.
300.
282.
283. | 275.
260.
275.
261.
277. |
| | MANUF G | 2332. | 1400.
1400.
919. | 1000.
900.
1100.
900.
1200. | 1100.
1000.
1000.
1000. | EXTENSIV
INSTITUT
ACRES | •• | | •••• | |
| | HIGH
INCOME
HH'S | 1270. | 992.
1005.
1186.
1168. | 1195.
1185.
1172.
1167.
1135. | 942.
779.
710.
643.
579. | EXTENSIV
INDUST L
ACRES | 45. | 38.
38.
38. | 38 38 38 38 38 38 38 38 38 38 38 38 38 3 | 38.
38.38.
39.38. |
| | HIDDLE
INC HH'S | 2685. | 2616.
2603.
3109.
3044. | 3042.
2917.
2872.
2647.
2630. | 1918.
1254.
1587.
1023.
1310. | NET IND/
NON-MFG
ACRES | 114. | 172.
143.
181.
163. | 169.
144.
156.
128.
145. | 152.
125.
152.
132.
159. |
| | LOWER MIDDLE | 4054. | 5492.
5433.
5937.
5858. | 5976.
5568.
5913.
5129.
5804. | 5500.
3200.
5200.
3400.
5000. | NET IND!
MANUF. G
ACP ES | 55. | 29.
28.
21. | 22.
20.
23.
19.
24. | 21.
18.
18.
17. |
| | LOW | 1941. | 1759.
1738.
2413.
2326. | 2714.
2416.
2831.
2354.
2918. | 2800.
2000.
2700.
2500.
2500. | NET COM-
MERCIAL
ACRES | 183. | 155.
148.
181.
187. | 818.
796.
747.
705.
676. | 640.
615.
647.
615.
653. |
| | FMPL NY- | .5007 | 7004.
6356.
9901. | 9300.
8800.
8700.
8200. | 7860.
7095.
7769.
7227.
7910. | NET RES-
IDENTIAL
ACRES | 960. | 859.
846.
912. | 125.
118.
121.
100.
117. | 107.
73.
58.
71.
90. |
| | HOUSE-
HOLDS | 9050. | 10859.
10779.
12644.
12396. | 12926.
12087.
12789.
11296.
12487. | 11165.
7324.
10766.
7133.
9453.
6913. | ACR ES | 1221. | 1216.
1165.
1295.
1297. | 1134.
1079.
1046.
952.
962. | 919.
830.
915.
835.
919. |
| HYNE DARK | PJPULA-
TION | 33123. | 34028.
33779.
39552.
38793. | 40433.
37933.
38730.
34253.
37824. | 33943.
22337.
31162.
21763.
28773. | VACANT
(AVAIL)
ACRES | •• | 91.
152.
0. | 106.
174.
211.
323.
312.
473. | 362.
468.
367.
461.
361. |
| 120 HYNE | | 1940 | 1980 HIGH
1980 HIGH
1990 HIGH | 2000 HIGH
2000 LOW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HTGH
2030 LCW
2040 HTGH
2040 LCW
2050 HTGH
2050 LCW | | 1960 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HICH
2000 LOW
2010 HICH
2010 LOW
2020 HICH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 LOW |

METRIPOLITEN PISTRICT COMMISSION—WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2350

| | COMMER-
CTAL
EMPLOYMT | 1875. | 1943.
1868.
1540.
1378. | 1500.
1350.
1500.
1300.
1500. | 1250.
1343.
1037.
1116.
916. | Ce Es | 1076. | | | |
|--------------|----------------------------------|--------|--------------------------------------|--|---|-------------------------------|-------|--|---|---|
| | INDIST./
NON-MFG.
EMPLOYMT | 428. | 895.
742.
883.
823. | 900.
850.
900.
900. | 830.
1015.
844.
1031.
885. | TOTAL ACPES | 10 | | | |
| | MANUE G | ** | 5.00 | | | PESTPICT
OPEN
SPACE AC | 92. | 85.
85.
85. | 85.
85.
85.
85. | 85.
85.
85.
85.
85. |
| | MANUF'S
EMPLOYMT | 38. | 121.
104.
209.
174. | 628.
200.
627.
200.
623. | 626.
130.
627.
1119.
414. | STPEETS/ PHIGHWAYS ACRES | 219. | 213.
212.
209. | 210.
201.
208.
194.
207. | 199.
195.
195.
193. |
| | MANUF'G | 133. | | | 6.0.
230. | EXTENSIV SINSTITUT H | :: | | | |
| | HIGH
INCOME
HH'S | 1308. | 1093.
1092.
1223.
1207. | 1178.
1126.
1090.
1003.
992.
870. | 739.
495.
611.
505. | EXTENSIV INDUST*L I | 17. | 16.
16.
16. | 16.
16.
16.
16.
16. | 16.
16.
16.
16. |
| | WIDDLE
WIDDLE
INC HH'S | 2354. | 2239.
2209.
2362.
2417. | 2262.
2252.
2107.
2026.
1898. | 1395.
990.
1153.
812.
953.
666. | NET IND/
NON-WEG
ACRES | 22. | 40.
43.
39. | 41:
41:
61:
61: | 38.
39.
44. |
| | LOWER MIDDLE | 4909. | 5211.
5155.
5299.
5243. | 5300.
4961.
5275.
4637.
5236. | 3800.
5000.
3900.
5000. | WET IND!
WANUF'S
ACRES | | | 18 18 | 18.
18.
19. |
| | INCOVE
HH'S | 1980. | 3173.
3168.
3064. | 3148.
2984.
3248.
2015.
3378. | 3600.
3700.
3800.
4000. | NET COM-
MERCIAL
ACRES | 161. | 154.
148.
122.
109. | 119.
119.
119.
119.
119. | 99.
106.
82.
88.
73. |
| | EMPL DY- | 2478. | 2963.
2719.
2632.
2375. | 3028.
2403.
3027.
3023.
2404. | 2705.
2487.
2508.
2766.
2415. | NET RES-
IDENTIAL
ACRES | 559. | 564.
568.
579. | 567.
553.
553.
455.
541. | 514.
415.
506.
417.
501. |
| | TOTAL
HOJSE-
HOLOS | 10551. | 11715.
11524.
11949.
11942. | 11884.
11323.
11720.
10581.
11504. | 10734.
9485.
10564.
8518.
10458. | ACRES | 748. | 762.
764.
746. | 746.
692.
731.
525.
719. | 669.
646.
584.
635. |
| NEGI | TOTAL
POPIJLA-
TION | 35565. | 36749.
36466.
37473.
37453. | 36095.
34402.
35592.
32174.
33795. | 31561.
25038.
31768.
25134.
30760. | VACANT
(AVAIL)
ACRES | | 0.
20. | 20.
82.
36.
156.
49. | 137.
134.
200.
146. |
| 121 WATTABAN | | 1960 | Horn usel | 2000 HTGH
2010 HTGH
2010 HTGH
2011 LTW
2020 HTGH
2021 LTW | 2030 HTGH
2030 LCW
2040 HTGH
2050 LOW
2050 HTGH
2050 LCW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1900 LOW | 2000 416H
2000 LDW
2010 416H
2010 1 DW
2020 416H
2020 1 DW | 2030 WIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 3108. | 7500.
7500.
6346. | 5700.
5083.
5100.
4500.
4500. | 4700.
4200.
4800.
6190.
6190. | CRES | 1732. | | | |
|-------------|----------------------------------|----------------|--------------------------------------|--|---|-------------------------------|-------|--|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 526.
616. | 4000.
4000.
3705.
3868. | 3400.
3691.
3114.
3446.
2800. | 2900.
2900.
2900.
2800.
3251. | TOTAL ACRES | | | | |
| | MANUE G MET | 17. | 17.
10. | | | RESTRICT
OPEN
SPACE AC | 305. | 305.
305.
305. | 309.
307.
310.
311. | 311.
311.
313.
313. |
| | MANUF G | 192. | 1000. | 116.
112.
100.
100. | 105.
108.
59.
124. | STREETS/
HIGHWAYS
ACRES | 319. | 334.
334.
319.
310. | 352.
337.
354.
355. | 356.
356.
356.
356.
356. |
| | *DRY*
MANUF'G
EMPLOYMT | 666. | 1278.
864.
198. | 250.
100.
300.
150.
400. | 300.
200.
200.
200.
200. | EXTENSIV
INSTITUT
ACRES | m m |
 |
 |
 |
| | HIGH
INCOME
HH'S | 1516. | 2118.
2031.
1839.
1624. | 2062.
1664.
2429.
1847.
2927.
2095. | 3400.
2800.
3729.
2927.
5365. | TATENST V. | 34. | 34.
34.
34. | 34.
34.
34. | 34.
34.34.
34.34. |
| | UPPER
MIDDLE
INC HH'S | 2149. | 3841.
3704.
3952.
3714. | 4229.
3837.
4512.
3964.
4865. | 4997.
4209.
5333.
4235.
7674. | NET IND/
NON-MFG
ACRES | 13. | 17.
16.
17. | 15.
13.
13.
12. | 17.
13.
17.
17. |
| | LOWER MY DOLE | 3173. | 4985.
4870.
5219.
4999. | 5424.
5118.
5660.
5255.
5810. | 5540.
5201.
5737.
5235.
8255. | MET IND/
MANUF'G
ACRES | 16. | 10.
10.
2. | w w 4 | |
| | INCOME | 786. | 2444.
2331.
2460.
2337. | 2485.
2214.
2492.
2108.
2496. | 2400.
1800.
2400.
1900.
2629.
2000. | NET COM-
MERCIAL
ACRES | 167. | 206.
206.
174.
153. | 147.
130.
132.
115.
116. | 127.
113.
128.
119. |
| | EMPLOY- | 4509. | 12794.
12381.
10359. | 9466.
8974.
8626.
8196.
7800. | 8005.
7365.
8008.
7359.
9765. | NET RES-
IDENTIAL
ACRES | 740. | 822.
822.
754. | 863.
757.
882.
834.
897. | 859.
813.
879.
879. |
| | HOUSE-
HOLDS | 7623.
8330. | 13387.
12936.
13470.
12675. | 14200.
12832.
15093.
13174.
16099. | 16337.
14010.
17199.
14297.
23923. | .USED.
ACRES | 932. | 1055.
1055.
947.
881. | 1028.
906.
1030.
967.
1029. | 1006.
1002.
1027.
1032.
1027. |
| BUST IMUALE | POPULA- | 26494. | 41633.
40234.
41890.
39423. | 44151.
45411.
39654.
48429. | 49143.
42161.
51728.
43024.
71902. | VACANT
(AVATL)
ACRES | 138. | 0.
124.
199. | 145.
0.75.
0.24. | 35.
0.
0. |
| 155 Bud 1 | | 1.40 | MUT 0661
1990 HICH
1990 HICH | 2000 HICH
2010 HICH
2010 HICH
2020 HICH
2020 HICH
2020 HICH | 2030 HICH
2030 LPW
2040 HICH
2050 HICH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HICH
2010 HICH
2010 HICH
2010 HICH
2010 HICH
2010 HICH | 2030 H1GH
2030 LCW
2040 H1GH
2040 LCW
2040 LCW
2050 H1GH |

METROPOLITAN DISTOICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLECATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMT | 55511. | 60858.
58939.
56500. | 55000.
54000.
53500.
52000.
50000. | 53000.
54000.
52000.
53000. | SES | 1139. | | | |
|--------------|----------------------------------|---------|--------------------------------------|---|--|-------------------------------|-------|------------------------------------|--|--|
| | INDUST./
NON-4FG.
EMPLOYMT | 10751. | 19462.
16173.
17889.
15590. | 17200.
15000.
16600.
14500.
16000. | 16000.
16500.
16500.
16500.
16500. | TOTAL ACRES | = | | | |
| | VERY WET MANUF'G | 182. | 173.
166.
148.
155. | 104.
98.
104.
105. | 103.
100.
101.
100.
97. | RESTRICT
OPEN
SPACE AC | 4 W | | * w * | |
| | MANUF'S
CMPLOYMT | 2114. | 420.
309.
0. | | | STPEETS/
HIGHWAYS
ACRES | 142. | 148.
133.
130. | 128.
114.
126.
108.
124. | 137.
117.
147.
132.
145. |
| | MANUF.G | 7330. | 2441.
957.
2000. | 2000.
2003.
2000.
1800.
2000.
1700. | 1375.
1165.
937.
790.
862.
698. | EXTENSIV
INSTITUT
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 3374. | 1520.
1523.
1507. | 1595.
1725.
1988.
1866. | 2429.
1711.
2200.
1724.
2400.
1676. | EXTENSIV
INDUST*L
ACRES | :: | . · · · · | :-:-:- | ; ² ; ² ; ² |
| | MIDDLE
MIDDLE
INC HH'S | 6774. | 2503.
2512.
1755.
1195. | 1536.
1532.
606.
1546. | 1709.
829.
1499.
842.
1251.
860. | NET IND/
NON-MFG
ACP ES | 25. | 128.
114.
118. | 113.
106.
109.
105. | 105.
112.
112.
112.
112. |
| | LOWER MIDDLE | 17935. | 9719.
9839.
4743.
5277. | 3482.
3342.
3541.
2649.
4033. | 4500.
1500.
4500.
1500.
4500. | MANUF G
ACRES | 25. | | 5. 13. 12. 12. | 4 5 5 |
| | INCOME | 11198. | 10958.
10951.
10356.
10424. | 9828.
9475.
9416.
8513.
8946.
7520. | 7800.
8000.
5200.
8500. | NET COM-
MEDETAL
ACPES | 730. | 774.
711.
681.
681. | 663.
651.
627.
627. | 694.
669.
736.
774.
793. |
| | EMPL NY- | 75889. | 83354.
76544.
76537.
74245. | 74304.
71101.
72204.
68398.
70105.
65799. | 70478.
66464.
71538.
71538.
70459. | NET RES-
INENTIAL
ACOES | 2111. | 117.
111.
72.
61. | 93.
118.
48.
137. | 134.
59.
124.
67. |
| | HOUSE - | 39281. | 24824.
24824.
18361.
17967. | 16441.
14401.
16214.
12556.
16392. | 16437.
9040.
15199.
9266.
16651. | ACPES | 994. | 986.
945.
876. | 875.
877.
190.
874. | 959.
985.
918.
986. |
| ٨٠٠١ | POPULA- | 118082. | 83559.
83897.
66447.
65381. | 60649.
55754.
60649.
51369.
61129. | 61252.
41278.
605.07.
41888.
61829. | VACANT
(AVATL)
ACPES | •• | 0.
57.
128. | 131.
194.
129.
236.
134. | 26.
0.
83.
0. |
| 132 CUXBIION | | 1940 | 1080 HTCH
1080 LTM
1090 HTCH | 2000 HICH
2001 LOW
2010 HICH
2011 LOW
2020 HICH
2020 LOW | 2020 HTCH
2040 HTCH
2040 LTM
2040 LTM
2050 LTM | | 1940 | 1980 HIGH
1980 LOW
1900 HIGH | 2000 UCH
2000 UCH
2010 UCH
2010 UCH
2010 UCH | 2030 41CH
2040 1CH
2040 41CH
2040 1 OH
2050 41CH |

METROPOLITAN DISTUICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRE ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMED-
CIAL
ENDL TYNT | 14611. | 17000.
17000.
14000. | 13600.
13500.
12600.
12600.
13500. | 12000.
14000.
12500.
14000.
13000. | RES | - | | | |
|--------------|----------------------------------|--------|--------------------------------------|--|--|--------------------------------|-------|---|--|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 8907. | 14129.
11764.
12500.
12500. | 12100.
11600.
11800.
10800.
11500. | 11500.
10000.
11500.
10000.
11500. | TOTAL ACRES | 2771. | | | |
| | MANUE . G
EMPLOYMT | 207. | 107.
98.
100. | 75.
75.
75.
75. | 75.
75.
75.
75. | PESTRICT
OPEN
SPACE AC | 582. | 582.
582.
582.
582. | 582.
582.
582.
582.
582. | 582.
582.
582.
582.
582. |
| | MANUE . G | 2402. | 892.
686.
800. | 800.
800.
650.
800. | 535.
349.
257.
227. | STREETS/
HIGHWAYS
ACRES | 489. | 490. | 458.
458.
458.
447.
454. | 452.
434.
457.
441.
455. |
| | MANUF 'S
EMPLOYMT | 8330. | 4662.
2783.
4279.
2624. | 4279.
2800.
4200.
3000.
4200. | 3641.
2772.
3072.
2279.
2848. | EXTENSIV
INSTITUT
ACRES | 103. | 103.
103.
103. | 103.
103.
103.
103.
103. | 103.
103.
103.
103. |
| | HIGH
INCOME
HH'S | 2912. | 901.
905.
555.
598. | 398.
443.
324.
370.
260. | 184.
200.
151.
163.
124. | EXTENSIV
INDUST .L
ACRES | 289. | 289.
289.
289. | 289.
289.
289.
289.
289. | 289.
289.
289.
289.
289. |
| | UPPER
WIDDLE
INC HH'S | 3433. | 1744.
1764.
1088.
1175. | 818.
876.
709.
735.
653. | 553.
456.
325.
374. | NET IND/
NON-MFG
ACRES | 426. | 539.
504.
477.
515. | 462.
478.
450.
445.
439. | 439.
412.
439.
412.
439. |
| | LOWER WIDDLE | 6397. | 6258.
6207.
6159.
6148. | 5937.
5604.
5720.
5038.
5453. | \$100.
\$200.
\$200.
\$000.
\$500. | MET IND!
MANUF'S
ACRES | 137. | 71. | 65.
64.
64.
64. | 53.
44.
34.
39.
31. |
| | INCOME | 2590. | 3911.
1868.
3730.
3652. | 3588.
3479.
3519.
358. | 3400.
2600.
3400.
2600.
3492.
2400. | NET COM-
MEDCIAL
ACRES | 122. | 142. | 115.
111.
113.
105. | 112.
100.
146.
133. |
| | FMPL DY- | 34457. | 36790.
32331.
31679. | 31054.
28475.
30475.
30075.
25875. | 29251.
25242.
28996.
25111.
28650. | NET RES-
IDENTIAL
ACRES | 391. | 312.
306.
275.
271. | 261.
250.
250.
240.
163. | 236.
171.
235.
181.
229. |
| | 400S | 15333. | 12815.
12744.
11537.
11573. | 10740.
10402.
10273.
9486.
9825.
8472. | 9237.
6700.
9206.
7088.
9990. | -USED - | 1076. | 1063.
995.
933. | 902.
871.
877.
854. | 840.
724.
863.
760.
853. |
| SOUTH POSTON | POPULA- | 53817. | 36798.
36601.
33205.
33320. | 30990.
30044.
28654.
26530.
27445. | 25857.
19007.
25773.
20055.
25191. | VACANT
(AVATL)
ACRES | 232. | 244.
324.
396. | 482.
462.
550.
488. | 505.
638.
477.
595.
488. |
| 124 SOUT | | 1960 | 1980 HICH
1980 LTW
1990 HICH | 2000 WICH
2000 1 NW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HICH
2030 LTM
2040 HICH
2040 LTM
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1989 LUM
1990 HIGH
1990 LW | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2010 LCW
2020 LCW | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 HIGH |

METOPOPOLITAN DISTOLCT COMMISSION--WASTEWATED STUDY
ACTIVITY HISTORY AND EMPIPIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMED-
CIAL
EMPLOYNT | 1949. | 1994.
1916.
1731.
1517. | 1700.
1500.
1700.
1500.
1700. | 1670.
1474.
1643.
1448.
1746. | u
u | 2400. | | | |
|----------------|----------------------------------|--------|-------------------------------------|---|--|------------------------------|-------|------------------------------------|---|--|
| | INDUST./
NON-MEG.
EMPLOYMT | 367. | 809.
670.
895.
798. | 900.
869.
917.
917. | 984.
990.
1046.
1165.
1134. | TOTAL ACPES | 24(| | | |
| | MANUF S | ٠.٠ | 19.
7. | | | RESTRICT
NDEN
SPACE AC | 513. | 460.
460.
460. | 460.
460.
460.
460.
460. | 460.
460.
460.
460.
460. |
| | MANUF'S
EMPLOYMT | 58. | 0.
21.
20. | | | STDEETS/ RHICHWAYS | 366. | 360.
356.
366. | 364.
363.
363.
362.
362. | 360.
352.
353.
345.
357. |
| | MANIF G | 200. | 500.
500.
300. | 300.
300.
200.
300.
200. | 195.
137.
127.
254.
200. | VISATI | ċ ċ | | | |
| | HIGH | 1365. | 1132.
1154.
1148. | 1057.
1072.
979.
1097.
893. | 893.
854.
730.
697.
838. | VISUATION I | 125. | 112.
112.
112. | 112.
112.
112.
112.
112. | 112.
112.
112.
112.
112. |
| | NIPPER NIPPER | 1721. | 2167.
2201. | 2124.
2013.
2013.
1904. | 1658.
1630.
1355.
1108.
1082. | JONE TRIP | 202. | 221.
215.
224.
221. | 225.
225.
225.
225.
225. | 229.
232.
232.
235. |
| | LOWER MI DOLE | 2115. | 3096.
3351.
3241. | 3505.
7341.
7602.
3427.
3704. | 3801.
3600.
3800.
3820.
3600. | MANITE G | | 14.
14.
9. | e e e | . 4 |
| | INCOME | 413. | 1071.
1046.
1162. | 1247.
1169.
1315.
1215.
1363. | 1404.
1214.
1422.
1216.
1602. | WEDCIAL
MEDCIAL
ACRES | 148. | 136.
131.
118. | 116.
102.
116.
116.
116. | 114.
100.
112.
99.
119. |
| | FMDI NY- | 2968. | 3313.
3098.
2937.
2635. | 2900.
2628.
2917.
2626.
2917. | 2851.
2594.
2818.
7504.
3126. | TENTIAL
TOENTIAL | 1053. | 1037.
1023.
1112.
1102. | 1100.
1083.
1087.
1078. | 1069.
1030.
1008.
966.
1018. |
| | 17741
H7JJS E-
HALL 95 | 5615. | 7521.
7453.
7862.
7655. | 7933.
7656.
7909.
7685.
7624. | 7756.
7307.
5843.
7358.
6839. | 169811 | 1230. | 1408.
1382.
1462.
1435. | 1449.
1415.
1437.
1424.
1427.
1391. | 1417.
1353.
1355.
1299.
1379. |
| Adlib Xua 151M | POPJLA- | 19460. | 24208.
23589. | 24421.
23621.
24349.
23578.
24210. | 23491.
22544.
21151.
221726.
20241. | VACANT
FEVATL) | 177. | 50.
89.
0. | 29.
29.
39. | 51.
113.
120.
184.
92.
214. |
| 125 WEST | | 1940 | 1980 HIGH
1990 HIGH
1990 I OW | 2000 HICH
2000 LOW
2010 HICH
2010 LOW
2020 HICH
2020 LOW | 2030 HIGH
2030 LOW
2040 LOW
2040 LOW
2040 LOW
2040 LOW
2050 HIGH | | 1000 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2031 HIGH
2031 LOW
2040 LOW
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

CITY OF AUSTON

| | COMMER-
CIAL
EMPLOYMT | 313675. | 37273.
373370.
371318. | 357883.
357100.
357100.
355216. | 363054.
339769.
36231.
339826.
365461. | ACRES | 29056. | | | |
|---------------|----------------------------------|-----------|--|--|--|--------------------------------|--------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 100973. | 153594.
141346.
144868.
143426. | 142250.
138952.
139803.
134421.
137467. | 134382.
128990.
134538.
129054.
131060. | TOTAL | 59 | 4 | | |
| | VERY WET MANUF G | 1661. | 1459.
1392.
1190.
1232. | 800.
800.
800.
800. | 800.
800.
800.
800. | R ESTR ICT
OPEN
SPACE AC | 5966. | 5757.
5757.
5757. | 5764.
5761.
5765.
5770. | 5771.
5772.
5773.
5775. |
| | MANUF G | 19218. | 9383.
8361.
6206.
5649. | 6914.
5698.
7106.
5535.
7415. | 6580.
4080.
5911.
3260.
5276. | STREETS/ HIGHWAYS ACRES | 5098. | 4991.
4902.
4844.
4788. | 4936.
4819.
4922.
4770.
4911. | 4862.
4701.
4886.
4724.
4906. |
| | *DRY * MANUF *G | 66636. | 29046.
22208.
20966.
15962. | 21929.
17361.
22500.
17600.
23350.
18050. | 20205.
16489.
19015.
15673.
20009. | EXTENSIV
INSTITUT
ACRES | 294. | 289.
289.
289. | 289.
289.
289.
289.
289. | 289.
289.
289.
289.
289. |
| | HIGH
INCOME
HH'S | 31192. | 27662.
27202.
29465.
28389. | 32548.
32946.
38491.
38643.
45581. | 44961.
55599.
48683.
57886.
55127. | EXTENSIV
INDUST'L
ACRES | 1962. | 1922.
1922.
1922.
1922. | 1922.
1922.
1922.
1922.
1922. | 1922.
1922.
1922.
1922.
1922. |
| | UPPER MIDDLE | 47240. | 35611.
35391.
35840.
35139. | 37930.
36140.
41132.
37941.
46289. | 54932.
51096.
61268.
58019.
66499. | NET IND/
NON-MFG
ACRES | 2420. | 2981.
2787.
2763.
2833. | 2700.
2639.
2637.
2677.
2584. | 2611.
2657.
2681.
2718.
2730. |
| | LOWER
MIDDLF
INC HH'S | 99725. | 85381.
84740.
79207.
78586. | 78123.
73641.
78856.
70567.
80240.
67436. | 77145.
58925.
74185.
58069.
74184. | MANUF G
ACRES | 661. | 285.
222.
226.
192. | 256.
202.
263.
211.
276. | 239.
185.
220.
166.
234. |
| | LOW | 46547. | 50982.
50638.
49234.
48838. | 49021.
46225.
49270.
44065.
49679. | 47963.
34811.
48112.
35691.
49852.
36803. | WET COM- | 3914. | 4251.
4131.
3809.
3588. | 4429.
4155.
4372.
4047.
4307. | 4291.
4014.
4482.
4142.
4560. |
| | FAPL CY- | 502163. | 570756.
546677.
544549.
534110. | 540892.
520694.
537308.
508056.
534247. | 525022.
490127.
526495.
488612.
522606. | NET PES-
IDENTIAL
ACRES | 7944. | 7306.
7262.
7233.
7135. | 6560.
6072.
6×62.
5886.
6578. | 6163.
5932.
5926.
5217.
5856. |
| | TOTAL
HOUSE-
HOLDS | 224703. | 199636.
197971.
193747.
190952. | 197622.
188952.
207749.
191215.
221789.
193496. | 225002.
200431.
232248.
209665.
245551.
197104. | ACRES | 14940. | 14823.
14402.
14031.
13748. | 13944.
13179.
13835.
12821.
13746. | 13303.
12187.
13309.
12243.
13380. |
| will the same | POPULA-
TION | 641053. 2 | 595541.
595541.
582929. | 586955. 1
560552.
607064. 2
558709.
639333. 2 | 634072. 2
555773.
644974. 2
572843.
676558. 2 | VACANT
(AVAIL)
ACRES | 795. | 1273.
1783.
2212.
2551. | 2200.
3087.
2320.
3489.
2418. | 2908.
4186.
2817.
4104.
2784. |
| | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 LOW
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LCW
1900 HIGH
1900 LOW | 2000 HTGH
2010 HTGH
2010 HTGH
2010 LDW
2020 LDW
2020 LDW | 2030 HIGH
2030 LDW
2040 HIGH
2050 HIGH
2050 LCW |

METROPOLITAN DISTOICT COMMISSION--WASTEWATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | COMMER-
CIAL
EMPLOYMI | 11154. | 12235.
11903.
11609.
11208. | 11472.
11007.
11311.
10700.
11090. | 11535.
10106.
12104.
10046.
11740. | CRES | | | | |
|-------------------|----------------------------------|------------|--------------------------------------|--|--|-----------------------------------|-------|--|---|---|
| | INDUST./
NON-MFG.
EMPLOYMT | 1806. | 3588.
3147.
4055.
3745. | 3922.
3967.
4089.
3959. | 4445.
4882.
4845.
5058. | TOTAL ACPE | 4365 | | | |
| | VERY WET I | | 4.
93.
65. | • • • • | | RESTRICT
OPEN
SPACE AC | 626. | 425.
425.
425.
426. | 426.
426.
425.
427.
427. | 426.
427.
427.
427.
427. |
| | MANUF'G | 48.
17. | | 4 6 0 | | STREETS/ R
HIGHWAYS
ACRES S | 732. | 703.
700.
702. | 695.
686.
691.
684.
678. | 686.
666.
698.
665.
693. |
| | MANUF'G | 388. | 0.
100.
100. | 99.
103.
0.
52.
0. | 0.0
0.0
400. | EXTENSIV S
INSTITUT H
ACRES | •• | | | |
| | HIGH
INCOME
HH'S | 6630. | 7826.
7833.
7901. | 7833.
7203.
7176.
6640.
6345. | 5317.
4621.
4768.
4185.
4218. | EXTENSIV E INDUST'L I | 34. | 24.
24.
24. | 24.
24.
24.
24.
24. | 24.
24.
24.
24. |
| | UPPER MIDDLE | 3445. | 5288.
5222.
5412.
5230. | 5117.
5137.
5758.
5116.
5736. | 5699.
4761.
5761.
4685.
5481. | NET IND! E | 67. | 103.
101.
81. | 85.
87.
86.
85. | 101.
97.
116.
121. |
| | LOWER HIDLF | 4871. | 7593.
7454.
8386.
8129. | 8749.
8428.
8953.
8570.
9009. | 9252.
8482.
9642.
8543.
9820.
8579. | MET IND! N
MANUF G
ACRES | 14. | 0.
2.
2. | 2.
0. 1.
0. 0. | |
| | INCOME | 3998. | 2740.
2690.
3168. | 3478.
3365.
3727.
3629.
3897. | 4119.
4302.
4302.
4114.
4640.
4103. | MERCIAL
ACRES | 521. | 411.
400.
397. | 394.
371.
393.
362.
384. | 404.
349.
442.
433.
390. |
| | EMPLOY- | 13396. | 15827.
15054.
15857.
15118. | 15384.
15281.
14841.
15049. | 14551.
14551.
16986.
14891.
17199. | NET DES- | 2149. | 2699.
2741.
2715. | 2687.
2607.
2647.
2599.
2533. | 2539.
2404.
2552.
2341.
2491.
2312. |
| | TOTAL
HOUSE- | 18944. | 23448.
23199.
24867.
24247. | 25678.
24132.
25614.
23955.
24987. | 24387.
21969.
24563.
21527.
24167. | ACP SS | 2750. | 3213.
3216.
3215.
3202. | 3168.
3063.
3127.
3047.
3092.
2962. | 3044.
2849.
3110.
2810.
3053.
2825. |
| JUKE THE | POPULA-
TION | 54044. | 61274.
60651.
64823.
63270. | 66848.
52984.
66690.
62540.
65122. | 63622.
57576.
64060.
56472.
63072. | VACANT
(AVATL)
ACRES | 222. | 0.
1.
13. | 54.
166.
99.
184.
236. | 186.
399.
108.
440.
170. |
| TOWN OF REDUKLINE | | 1960 | 1980 HIGH
1990 HIGH
1990 LOW | 2000 HIGH
2000 LM
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HICH
2010 HICH
2010 HICH
2010 HICH
2020 HICH
2020 LOM | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HTGH
2050 LOW |

| | | COMMER-
CIAL
EMPLOYMT | 1724. | 2990.
2860.
3770.
2895. | 3329.
2967.
4001.
2895.
4013. | 5172,
3250,
5982,
3510,
6199, | ACRES | | | | |
|---|----------------|----------------------------------|--------|--|---|--|--------------------------------|-------|--|---|---|
| | | INDUST./
NON-MFG.
EMPLOYMT | 503. | 1832.
1513.
2361.
2092. | 2436.
2352.
2825.
2454.
2814. | 3324.
2765.
3669.
3018.
3808. | TOTAL AC | 8448 | | | |
| | | VERY WET
MANUF G | | | | | RESTRICT
OPEN
SPACE AC | 2761. | 2775.
2773.
2791.
2793. | 2791.
2793.
2795.
2798.
2795. | 2795.
2805.
2795.
2806.
2796. |
| 050 | | MANUF G | 211. | 229.
189.
146. | 389.
384.
384.
233.
314. | 313.
134.
269.
87.
175. | STREETS/
HIGHWAYS
ACRES | 750. | 853.
845.
878.
872. | 858.
879.
856.
870. | 882.
853.
876.
874.
873. |
| 1960 - 2350 | | MANUF G | 47. | | | 200. | EXTENSIV
I NSTITUT
ACRES | 46. | 46.
46. | 46.
46.
46.
46. | , 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, |
| EWATER STU
CATIONS | | HIGH
INCOME
HH'S | 2944. | 3023.
2993.
3323. | 3926.
3203.
4882.
3123.
5860. | 5600.
3107.
4600.
2679.
4100.
2720. | EXTENSIV
INDUST'L
ACRES | 115. | 115.
115.
115.
115. | 115.
115.
115.
115. | 115.
115.
115.
115. |
| METROPOLITAN DISTRICT COMMISSION MASTEWATER STUNY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS | | UPPER
MIDDLE
INC HH'S | 1924. | 2649.
2603.
3041. | 3343.
3109.
3718.
3167.
4119. | \$304.
3232.
\$318.
3219.
5400. | NET IND/
NON-MEG
ACRES | 19. | 45.
34.
54. | 52.
59.
54.
54. | 72.
65.
80.
73.
83. |
| ICT COMMIS | | LOWER
MIDDLE
INC HH'S | 2013. | 2722.
2672.
2903.
2866. | 3107.
2957.
3393.
3022.
3794. | 4200.
3142.
4250.
3279.
4300. | NET IND/
MANUF G
ACRES | 10. | 10.
7. | 14.
14.
11.
4. | 11.
10. 2.
10. 5. |
| TORY AND E | | INCOME
HH'S | 515. | 852.
826.
921.
899. | 998.
948.
1068.
980.
1151. | 1550.
1142.
1700.
1207.
1950. | NET COM-
METCIAL
ACRES | 210. | 359.
351.
375. | 364.
359.
382.
355.
369. | 416.
377.
468.
394.
483. |
| TIVITY HIS | | EMPLOY- | 2485. | 5051.
4562.
5776.
5105. | 6155.
5656.
7211.
5582.
7140. | 8809.
6149.
9920.
6614.
10382.
7689. | NET RES-
IDENTIAL
ACRES | 3259. | 3975.
3943.
4181.
4185. | 4114.
4017.
4158.
4006.
4097. | 4091.
3872.
3839.
3775. |
| AC | | HOUSE-
HOLDS | 7396. | 9245.
9095.
10187. | 11374.
10217.
13062.
10293.
14924. | 16654.
10623.
15868.
10384.
15750. | .USED.
ACRES | 3498. | 4389.
4336.
4618.
4592. | 4436.
4436.
4613.
4421.
4533. | 4591.
4323.
4430.
4308.
4352. |
| | LTON | POPULA-
TION | 26375. | 31215.
30718.
34323.
33566. | 38243.
34422.
43809.
34671.
49955. | 55662.
35760.
53068.
34972.
52680. | VACANT
(AVATL)
ACPES | 1279. | 271.
332.
0. | 91.
200.
0.
212.
90. | 20.
307.
186.
319.
266. |
| | TUNN OF MILTON | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LNW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HTGH
2000 LDW
2010 HTGH
2010 LDW
2020 HTGH
2020 LDW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | COMMER-
CIAL
EMPLOYMT | 12302. | 19415.
18949.
18798.
17363. | 18195.
17158.
17579.
15166.
16791. | 16945.
13796.
17183.
14003.
17242. | 8 | | | | |
|----------------|---|----------------------|--|---|---|--------------------------------|--------|------------------------------------|---|--|
| | INDUST./ CO
NON-MFG. C
EMPLOYMT EMP | 3944. 12
6276. 19 | 10608. 19
9309.
10983. 18
10369. | 10669. 18
10679. 17
10559. 17
10568.
10101. 16 | 10233. 16
10237.
10395. 17
10506.
10376. 17 | THTAL ACRES | 11731. | | | |
| | VERY WET INF
MANUE 'G NON
EMPLOYMT EM | •• | | | | PESTRICT
OPFN
SPACE AC | 1897. | 1881.
1879.
1903.
1902. | 1917.
1919.
1920.
1926.
1924. | 1924.
1931.
1924.
1932. |
| | MANUE G | 1367. | 2851.
2275.
2478.
1923. | 1571.
1193.
864.
637.
442. | 287.
278.
125.
138.
81. | STPEETS/ PHIGHWAYS ACRES S | 1792. | 1867.
1850.
1901.
1884. | 1918.
1904.
1921.
1859.
1918. | 1920.
1822.
1903.
1828. |
| | MANUF G
EMPLOYMT | 9206. | 500.
500.
400. | 200.
200.
100.
100.
0. | 200.00.00.00.00.00.00.00.00.00.00.00.00. | EXTENSIV
INSTITUT
ACRES | :: | | . · . · . · | 2-2-2-2 |
| | HIGH
INCOME
HH'S | 10769. | 10320.
10285.
9946. | 9248.
9222.
8156.
8581.
7052. | 6103.
6255.
5106.
6060.
6205. | EXTENSIV
INDUST •L
ACRES | 156. | 152.
152.
152.
152. | 152.
152.
152.
152.
152. | 152.
152.
152.
152.
152. |
| | UPPER
MIDDLE
INC HH'S | 5846. | 8307.
8152.
9259.
8872. | 10244.
9411.
10923.
9373.
11562. | 12100.
9013.
11912.
9052.
12100. | NET IND/
NON-MFG
ACRES | 69. | 220.
187.
222.
221. | 219.
220.
220.
241.
210. | 215.
242.
224.
257.
228. |
| | LOWFR
MI DOLE
INC HH'S | 6541. | 8610.
8442.
9905.
9502. | 11185.
10495.
12356.
11163.
13533. | 14600.
12188.
14600.
12502.
14600.
12753. | MET IND!
MANUF'G
ACRES | 127. | 40.
34.
28. | 21.
17.
12.
5. | |
| | LOW | 2533. | 1693.
1681.
2088.
1988. | 2723.
2530.
3333.
3016.
3905. | 4400.
4400.
4400.
4400.
3790. | NET COM-
MERCIAL
ACRES | 756. | 1167.
1140.
1130. | 1094.
1032.
1057.
912.
1009. | 1014.
829.
1030.
843. |
| | TOTAL
FMDLOY-
MENT | 26819. | 33378.
31038.
32659.
30055. | 30636.
29230.
29202.
26471.
27334. | 24312.
24312.
27703.
24647.
27899.
25501. | NET 9 ES-
IDENTIAL
ACRES | 5507. | 5808.
5767.
6166.
6156. | 6345.
6448.
6184.
6512.
6102. | 6503.
5983.
6305.
5986.
6395. |
| | TOTAL
HOUSE-
HOLDS | 25688. | 28929.
28561.
31199.
30262. | 33399.
31658.
34767.
32132.
36052. | 37203.
31249.
36018.
31392.
37305. | .USFD. | 6459. | 7235.
7127.
7553. | 7729.
7631.
7737.
7316.
7736. | 7735.
7058.
7561.
7089. |
| NOTA | POPULA-
TION | 92384. | 97569.
96390.
101711. | 108533.
103136.
112772.
104605.
116755. | 120324.
101867.
116651.
102309.
120641. | VACANT
(AVATL)
ACRES | 1426. | 595.
722.
221.
342. | 14.
124.
0.
643. | 191. |
| CITY OF VENTON | Machine Section 1 | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2010 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2030 LOW
2040 HIGH
2050 LOW
2050 HIGH
2050 LOW | | 1960 | 1980 HIGH
1990 HIGH
1990 LOW | 2000 HIGH
2010 LIW
2010 HIGH
2010 LIW
2020 HIGH
2020 LIW | 2030 HIGH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION -- WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2950

| | COMMER-
CIAL
EMPLOYWT | 371947. | 446916.
441994.
433687.
427353. | 428922.
415740.
424661.
404850.
421069.
395102. | 419029.
392518.
422950.
392491.
421930. | S | | | | |
|-----------|----------------------------------|-------------------------|--|---|---|----------------------------------|--------|--|---|--|
| | 80 4 | 371 | 4.3. | 4 4 4 | 4.3.3. | ACO E | 44417. | | | |
| | INDUST./
NON-MFG.
EMPLOYMT | 126291. | 202538.
182193.
191709.
188351. | 186760.
182258.
182471.
176157.
178626. | 173858.
168052.
173391.
167478.
168600. | TOTAL ACPES | ; | | | |
| | VFRY WET MANUF 'G | 2306. | 1466.
1399.
1283.
1296. | 800.
800.
800.
800. | 800.
800.
800.
800. | RESTRICT
OPEN
SPACE AC | 8233. | 7823.
7822.
7828. | 7838.
7828.
7842.
7833.
7846. | 7847.
7849.
7849.
7851. |
| | MANIJE .G | 33527. | 16773.
15043.
11370. | 11647.
10125.
11683.
9799.
11924. | 10471.
7103.
9270.
5535.
8103. | STPEFTS/ PHIGHWAYS ACRES | 7932. | 7865.
7728.
7650. | 7711.
7542.
7664.
7450.
7613. | 7546.
7304.
7327.
7603. |
| | MANUF G
EMPLOYMT | 93912. | 49340.
35798.
38583.
29160. | 37999.
28242.
36435.
26640.
35346. | 32485.
25289.
30920.
24678.
32420.
26981. | EXTENSIV
INSTITUT
ACRES | 346. | 341.
341.
341. | 341.
341.
341.
341. | 341.
341.
341.
341. |
| | HIGH
INCOME
HH'S | 50433. | 44607.
44174.
45449.
44634. | 48212.
53370.
52735.
58734. | 55709.
65120.
58370.
66571.
63755. | EXTENSIV E
INDUSTIL I | 2654. | 2604.
2604.
2604. | 2604.
2604.
2604.
2604.
2604. | 2604.
2604.
2604.
2604.
2604. |
| | UPPER
MIDDLE
TNC HH'S | 70932. | 52936.
52635.
51089. | 51851.
49754.
54238.
50485.
58471. | 66330.
60706.
72979.
78179.
69193. | NET TAD! F
NON-MFG I
ACRES | 2939. | 4216.
3924.
3912.
3975. | 3782.
3853.
3677.
3744.
3582. | 3600.
3685.
3749.
3728. |
| | LOWER MIDDLE | 143407. | 134780.
133537.
130377.
128728. | 130381.
123729.
131786.
120251.
133310. | 128920.
104507.
125038.
102512.
124890. | NET IND! N
MANUF.G
ACPES | 1506. | 758.
616.
619. | 605.
481.
578.
452.
565. | 486.
362.
455.
469. |
| | LOW | 64831. | 73872.
73149.
73958. | 75039. 1
71117.
76383. 1
69512.
77592. 1 | 76583. 1
77054. 1
61805. 1
79202. 1 | MEGCIAL
ACRES | 5282. | 5708.
5525.
5108. | 5682.
5331.
5580.
5168.
5475. | 5470.
5760.
5777.
5885. |
| | TOTAL
EMPLOY- | 627983. | 717033.
677427.
676632.
656538. | 666127.
637164.
656049.
618245.
647664. | 636643.
593763.
637330.
590982.
631852.
597101. | NET PES- 1
IDENTIAL
ACRES | 13474. | 13235.
13199.
13120.
12938. | 12449.
11632.
12374.
11267.
10759. | 11694.
10269.
11393.
10024.
11231.
9805. |
| | TOTAL
HOUSE-
HOLDS | 329603. | 306194.
303495.
300874.
296518. | 305970.
292812.
315778.
292983.
328108.
292125. | 327542.
291350.
333441.
298692.
346026.
285125. | ·USED . | 23201. | 23917.
23265.
22758.
22238. | 22518.
21297.
22209.
20652.
21825.
19838. | 21250.
19402.
21294.
19392.
21313. |
| | TOTAL
POPULA-
TION | 1031744. 3
961475. 3 | 904575. 3
897376.
883885. 3
871934. | 889691. 3
851625.
907738. 3
842342.
935847. 3 | 921194. 3
811888. 3
928346. 3
824384. 957739. 3 | VACANT
(AVA 1L.)
ACPES | 2051. | 1867.
2657.
3237. | 3405.
4805.
3757.
5537.
4189. | 4829.
4746.
5910.
4705. |
| COOF APEA | | 1 0961 | 1980 HIGH
1980 L'M
1990 HIGH
1990 L'W | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW
2050 HIGH
2050 LOW | | 1940 | 1980 HIGH
1980 LCW
1990 HIGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 I OW
2020 HIGH
2020 I CW | 2030 HTCH
2030 LOW
2040 HTGH
2050 LOW
2050 HTGH
2050 HTGH |

METROPOLITAN DISTRICT COMMISSION——WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2350

| | S |
|---|-------|
| | 88 |
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| | 3 |
| | 8 |
| | SUBUR |
| | v |
| į | œ |
| | 4 |
| | z |
| | NN |
| | - |

| COMMER-
CIAL
EMPLOYMT | 150048. | 262534.
272154.
272154. | 4251. 276982.
130952. 263475.
8255. 289519.
135894. 263134.
5893. 297884.
135040. 264506. | 310033.
263981.
330071.
335792. | ACRES | 273015. | | | |
|----------------------------------|----------|--|--|--|--------------------------------|---------|--|--|--|
| INDUST./
NON-MFG.
EMPLOYMT | 48494. | 124785.
106298.
135467.
123507. | 13 | 141089. 3
139774.
147559. 3
149673. 3
148727. | TOTAL ACRES | 273 | | | |
| VERY WET
MANUF 'G | 180. | 103.
99.
31.
28. | | | PESTRICT
OPEN
SPACE AC | 56210. | 56761.
56727.
57450.
57348. | 57776.
57646.
58140.
58303. | 58318.
58109.
58414.
58159.
58516. |
| MANUF G | 29153. | 34365
33572.
26598. | 29636.
23361.
25932.
19925.
22357. | 19663.
10918.
17076.
7466.
14566. | STEETS/ PHIGHWAYS | 29597. | 32239.
31790.
33455.
32765. | 33291.
34507.
34593.
34593. | 34458.
32809.
34727.
32839.
34803. |
| MANUF G | 109242. | 92068.
74725.
85101.
69364. | 77244.
63490.
71226.
57504.
64842. | 56433.
44072.
48051.
36583.
43246. | EXTENSIV
INSTITUT
ACP ES | 5414. | 5404.
5404.
5404. | 5404.
5404.
5404.
5404. | 5404.
5404.
5404.
5404.
5404. |
| HIGH
INCOME
HH'S | 86845. | 97178.
96212.
99276. | 101011.
93041.
102404.
91386.
102876. | 99252.
77579.
94014.
74280.
94306. | EXTENSIV
INDUST L
ACRES | 6446. | 6434.
6434.
6434.
6434. | 6434.
6434.
6434.
6434.
6434. | 6434.
6434.
6434.
6434.
6434. |
| MIDDLF
INC HH'S | 96736. | 121502.
119910.
127926.
123423. | 131981.
124603.
135281.
124989.
136281. | 1322 95.
108103.
128081.
103997.
1253 64. | NET IND/
NON-MEG
ACRES | 2041. | 6191.
5284.
6765.
6200. | 6744.
6659.
6959.
6930.
6933. | 7143.
7243.
7521.
7645. |
| LOWER
MIDDLE
INC HH'S | 133324. | 178651.
175985.
198891.
190731. | 215262.
202584.
230399.
212214.
243796. | 254116.
221434.
260544.
222474.
266323. | NET IND!
MANUE 'G
ACRES | 3074. | 3115.
2624.
2984.
2505. | 2717.
2291.
2490.
2055.
2232. | 1935.
1433.
1667.
1180.
1451. |
| INCOME
HH'S | 44792. | 53983.
53170.
60942.
58352. | 66759.
62910.
72297.
66789.
77378. | 82477.
72871.
85279.
73094.
87570. | NET COM-
MERCIAL
ACRES | 9533. | 17897.
17897.
19057.
17959. | 19452.
18841.
20291.
18926.
20720. | 21498.
19177.
22847.
19781.
23226. |
| TOTAL
FMPLOY-
MENT | 337115. | 513857.
463576.
526346.
471403. | 518113.
481279.
524933.
476457.
521076. | 527218.
458746.
542758.
461539.
543278. | NET RES-
IDENTIAL
ACPES | 75868. | 102237.
101350.
111441.
109115. | 115010.
111628.
119474.
114892.
120214. | 116721.
106229.
116540.
105100.
116638. |
| TOT AL
HOUSE-
HOLDS | 361697. | 451315.
445278.
487036.
468024. | 515013.
483138.
540382.
495380.
560334. | 568140.
479987.
567919.
473846.
573562. | .USED.
ACRES | 90516. | 129824.
127155.
140247.
135779. | 143923.
139419.
149214.
142830.
149996. | 147297.
134082.
148570.
133684.
148960. |
| TOTAL
POPULA-
TION | 1257879. | 1479938.
1460289.
1576283.
1515709. | 1665689.
1564864.
1734062.
1592417.
1781984. | 1803480.
1529483.
1793527.
1502278.
1807741. | VACANT
(AVAIL)
ACPES | 87418. | 42352.
45504.
30024.
35284. | 25576.
30821.
19316.
26761.
18284. | 21104.
36176.
19465.
36495.
18898. |
| | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH 1 2000 LPW 2010 HIGH 1 2010 LPW 2020 HIGH 1 2020 LPW 2020 LPW | 2030 HIGH 2040 LOW 2040 HIGH 1 2050 HIGH 1 2050 LOW 2050 LOW | | 1960 | 1980 HTGH
1980 LPW
1990 HTGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 LCW
2020 HIGH
2020 HIGH
2020 LCW | 2030 HJGH
2030 LOW
2040 HJGH
2040 LCW
2050 HJGH
2050 HJGH |

METROPOLITM DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

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| | | | | 2.3. | | | | | |
|----------------------------------|---------|--|---|--|-------------------------------|---------|--|--|--|
| COMMER-
CIAL
FMPLNYMT | 66216. | 190550.
183090.
244160.
220742. | 299097.
290785.
385823.
347018.
480962. | 570945.
463504.
696990.
530946.
792293. | ACPES | 863. | | | |
| INDUST./
NON-MFG.
EMPLOYMT | 16703. | 72679.
61511.
97825.
98143. | 113990.
116791.
144281.
147951.
165487. | 195054.
197174.
229050.
226614.
257228. | TOTAL | 703863 | | | • |
| MANJE 4G
FMPLOYMT | 1166. | 435.
406.
186. | 200.
200.
200.
200.
200.
200. | 200.
200.
200.
200.
200. | RESTRICT
OPEN
SPACE AC | 98267. | 99661.
99574.
102139.
101848. | 103571.
103144.
105488.
104702.
106801. | 107234.
108567.
108567.
110192.
106716. |
| MANIFE G | 18704. | 18862.
15420.
20038.
16024. | 14514.
14514.
17385.
13276.
15820. | 14866.
7428.
13656.
4999.
12331. | STPETS/ PHIGHWAYS ACRES | 27165. | 38978.
38365.
43119.
42067. | 46396.
45503.
50131.
48482.
53335. | 55045.
50770.
58671.
52280.
62114.
54513. |
| MANUF G | 35788. | 73594.
58479.
86317.
66478. | 89750.
68270.
92341.
70858.
94814. | 101084.
. 75641.
106031.
. 78742.
104338. | EXTENSIV
INSTITUT
ACRES | 6434. | 6434.
6434.
6434.
6434. | 6434.
6434.
6434.
6434.
6434. | 6434.
6434.
6434.
6434.
6434.
6434. |
| HIGH
INCOME
HH'S | 31093. | 64355.
62844.
79686.
76252. | 92813.
86939.
105531.
94856.
118331. | 132990.
108906.
144371.
112443.
168541. | EXTENSIV
INDUST'L
ACRES | 13024. | 13024.
13024.
13024.
13024. | 13024.
13024.
13024.
13024.
13024. | 13024.
13024.
13024.
13024.
13024. |
| HIDDLE
INC HH'S | 42793. | 83235.
R1492.
101499.
96647. | 119322.
110883.
137112.
123246.
155175. | 173002.
145238.
187969.
144292.
204610.
147016. | NFT IND/
NON-MFG
ACRES | 2346. | 7754.
6853.
9781.
8983. | 10766.
10778.
12512.
12652.
13761. | 15507.
15614.
17499.
17344.
19131. |
| LOWER
MIDDLF
INC HH'S | 60009. | 98846.
96935.
119553.
113344. | 139402.
130069.
160424.
145487.
182775. | 208415.
173489.
234825.
178910.
261988. | NET IND/ I | 3429. | 6580.
6064.
6738.
6099. | 6494.
5714.
6263.
5407.
5873. | 6040.
4198.
6124.
4201.
5915. |
| INCOME
HH'S | 16654. | 26671.
26029.
33379. | 40084.
37102.
47294.
42923.
54984. | 63097.
54112.
70669.
54107.
78180. | NFT COM-
MERCIAL
ACP ES | 13878. | 29494.
28945.
32683.
31257. | 36175.
35837.
41619.
39548.
47641. | 53527.
47243.
61882.
51686.
67900. |
| EMPLOY- | 138576. | 356120.
318905.
448528.
391563. | 521764.
490561.
640031.
579304.
757284. | 882151.
743948.
1045930.
841503.
1166390.
961319. | VET RES-
IDENTIAL
ACRES | 65882. | 136812.
134812.
167361.
162798. | 184568.
178122.
207476.
196507.
222957. | 224786.
195003.
240214.
197605.
259351.
204357. |
| TOTAL
HOUSE-
HOLYS | 150547. | 273107.
267299.
334117. | 391624.
364993.
450362.
406513.
511266. | 637836.
637836.
489753.
713320.
513068. | · USED • ACRES | 85534. | 180639.
176673.
216563.
209136. | 238003.
230452.
267870.
254114.
290233. | 299860.
262057.
325718.
270837.
352296. |
| TOTAL
POPULA-
TION | 558320. | 976154.
955660.
1171162.
1113353. | 1367258.
1275258.
1552062.
1402305.
1737883. | 1949386.
1628572.
2131250.
1639218.
2368457.
1706644. | VACANT
(AVATL)
ACRES | 473439. | 365125.
369792.
322584.
331354. | 296435.
305308.
260916.
277107.
234037. | 222267.
265833.
191449.
255224.
159804. |
| | 1960 | 1980 4164
1980 LOW
1990 HIGH 1 | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HIGH 1
2040 LOW
2040 HIGH 2
2040 LCW
2050 HIGH 2 | | 1960 | 1980 HTCH
1980 LCW
1990 HTGH
1990 LCW | 2000 HIGH
2000 LOW
2010 HIGH
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH
2040 HIGH
2040 HIGH
2050 HIGH
2050 HIGH
2050 HIGH |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY ALLOCATIONS 1960 - 2050

| | INDUST./ COMMER-
NON-MEG. CIAL
FMPLOYMT EMPLOYMT | 15968. 50162.
17867. 75264. | 36588. 86165.
30654. 83419.
41166. 92193.
36629. 84014. | 42337. 99513.
41448. 94454.
46620. 111653.
46449. 101187.
48002. 123966. | 52935, 139389,
53222, 115592,
58584, 161019,
58409, 126486,
62739, 175179,
52141, 143969, | TOTAL ACPES | 171448. | | | 1900 |
|---------------------|--|--------------------------------|--|--|--|---------------------------------|------------------|--|--|--|
| | WERY WET MANUF.G | ••• | | | | DPEN
OPEN
SPACE AC | 42377. | 42652.
42628.
43193.
43120. | 43470.
43374.
43851.
43884.
44083. | 44153.
43873.
43930. |
| | MANUE 'G | 14152. | 19112.
15214.
18975.
14909. | 16912.
12896.
14885.
11069.
12896. | 11346.
5963.
9855.
4108.
8373.
2669. | STREETS/
HIGHWAYS
ACRES | 9891. | 12605.
12401.
13469.
13121. | 13926.
13606.
14633.
14145.
15002. | 15244. 14238. 15778. |
| | MANUF 'G | 33625. | 29818.
25318.
29625.
24383. | 28433.
23858.
27913.
23440.
26930.
22419. | 26758.
21852.
25582.
20841.
25218. | EXTENSIV
INSTITUT
ACP ES | 1168. | 1159.
1159.
1159. | 1159.
1159.
1159.
1159.
1159. | 1159.
1159.
1159. |
| | HTGH
INCOME
HH'S | 21166. | 28466.
28009.
31250. | 33526.
31884.
35843.
33047.
37812. | 39555.
33008.
40581.
32649.
44703. | EXTENSIV
INDUST'L
ACRES | 2667. | 2660.
2660.
2660.
2660. | 2660.
2660.
2660.
2660.
2660. | 2660.
2660.
2660.
2660. |
| | UPPER
MIDDLF
INC HH'S | 30513. | 38453.
37954.
40175.
39038. | 41768.
39978.
43688.
45256.
41574. | 46235.
39665.
47627.
38792.
49763. | NET IND/ ENON NON-WEG I | 749. | 2017.
1679.
2298.
2037. | 2391.
2329.
2647.
2625.
2731. | 3010.
3019.
3326.
3316. |
| | LOWER
MIDDLF
INC HH'S | 50681. | 66835.
65936.
73395.
70720. | 78494.
74532.
83677.
77910.
87851. | 91115.
80949.
94126.
81391.
97425.
81506. | MET IND! N
MANUFIG
ACPES | 1114. | 1258.
1057.
1286.
1057. | 1200.
999.
1147.
949.
1086. | 1075.
800.
1036. |
| | INCOME | 21933. | 22485.
22223.
24136.
23344. | 25597.
24345.
27321.
25467.
28704. | 30252.
26614.
31474.
26476.
33500. | MERCIAL
ACRES | 6118. | 10523.
10329.
10908.
10398. | 11448.
11138.
12310.
11662.
13123. | 14149.
12723.
15598.
13482. |
| | TOTAL
EMPLOY- | 113906. | 171688.
154611.
181959.
159934. | 187195.
172656.
201071.
182145.
211794.
189796. | 230428.
196630.
255040.
209844.
271510.
230200. | NET RES- N
IDENTIAL
ACRES | 25141. | 38693.
38108.
45784.
44382. | 49172.
47227.
53901.
50837.
56122. | 55965.
49000.
58238.
49096. |
| | TOT AL
HOUSE-
HOLDS | 124293. | 156239.
154120.
168956.
163398. | 179384.
170739.
190529.
177409.
181586. | 207157.
180235.
213808.
179308.
225391. | · USED . | 33121.
42936. | 52491.
51173.
60276.
57874. | 64211.
61693.
70006.
66073.
73062.
68314. | 74198.
65542.
78198.
66649. |
| IN SECTOR | TOTAL
POPULA-
TION | 411530. 1 | 49239. 1
492411.
537044. 1
519284. | 570105. 1
542599.
602897. 1
561347.
628902. 1
572212. | 651685. 2
567371.
668265. 2
560585.
705339. 2 | VACANT
(AVATL)
ACRES | 82224. | 59882.
61428.
50692.
53515. | 48957.
48957.
39141.
43727.
35483. | 34035.
43977.
29292.
42607. |
| WORTHEASTERN SECTOR | | 1960 | 1980 HIGH 4
1990 LOW
1990 LOW | 2000 HIGH
2010 LOW
2010 LOW
2020 HIGH
2020 HIGH | 2030 HIGH 2030 LCW 2040 HIGH 2050 LCW 2050 HIGH 2050 LCW | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 LOW | 2030 HIGH
2030 LOW
2040 HIGH
2040 LOW |

METROPOLITAN DISTRICT COMMISSION-WASTEWATER STUDY ACTIVITY HISTORY AND FMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| NOPTHERN SECTOR | SECTOR | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|---|
| | TOTAL
PJPULA-
TION | TOTAL
HOUSE-
HOLDS | TOTAL
EMPLOY-
MENT | LOW
TNCOMF
HH'S | L CWER
MI DOLE
INC HH'S | HODLE
INC HH'S | HIGH
INCOME
HH'S | *DRY * MANUF * G | MANUF'S | VERY WET
MANUF 'S
FWPLOYMT | INDUST./
NON-MFG.
EMPL TYMT | COMMER-
CIAL
EMPLOYMT |
| 1960 | 331658. | 92162. | 71022. | 9866. | 37379. | 26610. | 18307. | 17999. | 6883. | 164. | 10860. | 35116. |
| 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 431032.
423862.
464609.
445489. | 125197.
123127.
137560.
132010. | 147653.
134093.
168305.
151064. | 15007.
14659.
18338.
17200. | 52067.
51208.
58643.
56057. | 34263.
33758.
35883.
34658. | 23860.
23501.
24695.
24096. | 23246.
19099.
23194. | 7234.
5815.
7384.
5882. | 90. | 37590.
32422.
44515. | 79493.
76673.
93181.
83922 |
| 2000 HIGH
2010 HIGH
2010 HIGH
2020 HIGH
2020 LOW | 490066.
467936.
507061.
477420.
518986. | 145234.
138687.
152306.
143418.
158590.
144990. | 172903.
162308.
183445.
167971.
193726.
174212. | 20463.
18960.
22120.
20220.
23637.
21183. | 63524.
59965.
67834.
63026.
71609. | 3622.
35318.
37192.
35808.
37421. | 24626.
2444.
25160.
24364.
25923. | 21594.
18539.
20311.
17237.
19440. | 6873.
5445.
6361.
7947.
5707. | | 45471.
48289.
48275.
49457.
49569. | 98965.
93177
108483.
97513.
119123. |
| 2030 41GH
2030 LOW
2040 HIGH
2050 HIGH
2050 HIGH | 521152.
449392.
531808.
435769.
545563. | 160247.
137692.
165329.
134997.
171099. | 201479.
175241.
216446.
181973.
224561. | 25178.
26299.
26799.
26717.
26117. | 74355.
64314.
78227.
64800.
82060. | 36031.
30610.
36105.
28461.
36400. | 24683.
20738.
24697.
19965.
25922. | 17201.
12884.
16048.
11742.
14882. | 5221.
2763.
4822.
1856.
4242. | | 52097. 1
55103. 1
55103. 1
55730. | 126961.
107108
139472.
112646
146966. |
| | VACANT
(AVATL)
ACRES | •USE) • | NET RES- | MERCIAL
ACRES | NET IND!
MANUE G
ACP ES | NET IND!
NON-MFG
ACRES | EXTENSIV
INDUST'L
ACRES | EXTENSIV
INSTITUT
ACRES | STREETS/
HIGHWAYS
ACRES | DESTRICT
OPEN
SPACE AC | TOTAL ACPES | Sees |
| 1940 | 48273. | 23177. | 19636. | 2106. | 852. | 583. | 3042. | 114. | 7979. | 14616. | 972 | 97201. |
| 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 28880.
30088.
23734.
25892. | 40288.
39263.
44640.
42799. | 31795.
31371.
35055.
34024. | 5076.
4935.
5836.
5368. | 1240.
1075.
1247. | 2177.
1881.
2502. | 3042.
3042.
3042. | 114. | 10064.
9896.
10613.
10340. | 14814.
14798.
15058.
15013. | | |
| 2009 416H
2010 416H
2010 416H
2020 10W
2020 10W | 22189.
23723.
20014.
22078.
19428. | 45932.
44615.
47767.
46003.
48882. | 36010.
35122.
37271.
36124.
37759. | 6187.
5939.
6691.
6224.
7320. | 1181.
1025.
1116.
957.
1054. | 2555.
2531.
2689.
2699.
2750. | 3042.
3042.
3042.
3042.
3042. | | 10776.
10593.
11009.
19761. | 15148.
15113.
15255.
15202.
15313. | | |
| 2030 HIGH
2030 LCW
2040 HIGH
2040 LCW
2050 HIGH
2050 HIGH | 19211.
24464.
17483.
24692.
16222.
24427. | 48082.
43475.
49527.
43208.
50587. | 36425.
32929.
36897.
32169.
37466. | 6843
6843
8625
7226
9096 | 969.
767.
909.
700.
813. | 2936.
3095.
3212.
3212. | 3042.
3042.
3042.
3042.
3042. | | 11435.
19861.
11671.
10888.
11818. | 15317.
15245.
15363.
15256.
15418. | | |

METPOPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1950 - 2050

| | 10.7.01 | ě | ğ | 84005 | 1 | 30 | . 197 | YERV MET | INDIET | MA |
|--|-----------|--|--|--|--|--|--|--|--|---|
| HOLDS MENT | - | MCOME
HH. C | INC HH'S | M INC HH'S | | MANUE 'G | MANUF 6 | MANUF G | NON-MEG. | CIAL |
| 50781. 35466.
68399. 59814. | | 5608. | 16840. | 14284. | 15194. | 7149. | 3490. | 30 | 5279.
5773. | 19548. |
| 79311. 77500.
77935. 69668.
92348. 96397.
89113. 82425. | REPAIR OF | 6981.
6827.
8492.
8011. | 25620.
25201.
29875.
28668. | 24732.
24303.
29343.
28261. | 21978.
21603.
24638.
24173. | 19158.
14839.
21531.
16308. | 1535.
1273.
1782.
1429. | 13.
15. | 11762.
10192.
17099. | 45032.
43349.
55978.
49238. |
| 104935. 112933.
98703. 101492.
118688. 139915.
107840. 122354.
133644. 166127. | | 10156.
9490.
12029.
10936.
13976. | 34419.
32310.
39384.
34967. | 33413.
31145.
37613.
33742.
42093. | 26947.
25757.
29662.
27323.
32699. | 23020.
16539.
23490.
17004.
23437.
17070. | 1689.
1274.
1478.
1070.
1306. | | 20968.
21762.
28752.
29464.
34391. | 67256.
61918.
86194.
74816.
106993. |
| 152773. 196046. 1
125116. 164924.
166619. 232964. 1
127201. 190233.
183936. 259278. 1 | | 16403.
13739.
18170.
13947.
19663. | 52448.
42456.
58220.
43607.
64015. | 47146.
38640.
50668.
38540.
54724. | 36776.
30282.
39562.
31108.
45534. | 24457.
18130.
25545.
19047.
24386. | 1308.
371.
1266.
245.
1018. | | 42278.
42341.
50670.
50151.
57575. | 128004.
104083.
155483.
120790.
176298. |
| MET RES NET ALE MET ACRES ACRES ACRES ACRES A | - 4 | NET COM-
MERCIAL
ACRES | MET IND!
MANUFG
ACRES | NET IND! | EXTENSIV
INDUST L
ACRES | EXTENSIV
INSTITUT
ACRES | STREETS/
HIGHWAYS
ACRES | R FSTP ICT
DPEN
SPACE AC | TOTAL | ACRES |
| 33227. 26233. | | 5926. | 297. | 532. | 2923. | 3470. | 1279. | 15509. | 154969 | .696 |
| 42629. 33438.
41639. 33038.
50291. 39404.
48724. 38732. | | 6557.
6430.
7195.
6794. | 428.
340.
488. | 2206.
1831.
3203.
2820. | 2923.
2923.
2923.
2923. | 3470.
3470.
3470. | 9918.
9756.
10859. | 15845.
15828
16358.
16318 | | |
| 54763. 42951.
52759. 41486.
61647. 48287.
58211. 45548.
67354. 52458. 1
62542. 48399. | | 7856.
7650.
8944.
8517.
10155. | 528.
378.
533.
520.
375. | 3428.
3245.
3683.
3762.
4221. | 2923.
2923.
2923.
2923.
2923. | 3470.
3470.
3470.
3470.
3470. | 11398.
11132.
12190.
11770.
13040. | 16576.
17139.
16967.
17511. | | |
| 61744. 46251.
77140. 58038. 13
64186. 47121.
83897. 63143. 14 | = = = | 11496.
10481.
13272.
11543. | 563.
399.
589.
550. | 4714.
4613.
5241.
5104.
5655. | 2923.
2923.
2923.
2923.
2923. | 3470.
3470.
3470.
3470.
3470. | 13549.
12569.
14333.
12950.
15075. | 17692.
17260
18051.
17358
18503. | | |

METROPOL ITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

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| C |
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| W |
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| Z |
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| W |
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| S |
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| |

| COMMER-
CIAL
EMPL TYMT | 59430. | 119073.
115288.
131845. | 148109.
144782.
174575.
157954.
200771. | 224303.
184284.
258230.
201549.
281199. | ACPES | .526329. | | | |
|----------------------------------|---------|--|--|--|--------------------------------|----------|--------------------------------------|---|--|
| INDUST./
NON-MFG.
EMPLOYMT | 18047. | 60487.
52020.
67760.
62200. | 71824.
71705.
80176.
80571.
84682. | 92737.
92988
102257.
101281
109239. | TOTAL ACPES | 226 | | | |
| WERY WET
MANUF'G
EMPLOYMT | 70. | 63.
22.
20. | | • • • • | OPEN
OPEN
SPACE AC | 28383. | 28826.
28811.
29638.
29563. | 30153.
30032.
30791.
30582.
31167. | 31255.
30890.
31626.
30983.
32044. |
| MANUF G | 11978. | 13399.
10842.
12675.
10061. | 10405.
8082.
8718.
6672.
7250. | 6444.
3655.
5596.
2450.
5327.
1807. | STREETS/ PHIGHWAYS ACRES | 12285. | 16366.
16145.
17627.
17287. | 18714.
18448.
19975.
19416.
20720. | 21029.
19690.
21893.
20052.
22645.
20579. |
| MANUF'G | 54443. | 53605.
39541.
56512.
41326. | 53483.
39858.
52524.
38772.
51562. | 51157.
37091.
49755.
35622.
45197. | EXTENSIV
INSTITUT
ACRES | 1289. | 1288.
1288.
1288.
1288. | 1288.
1288.
1288.
1288.
1288. | 1286.
1286.
1288.
1288.
1288. |
| HIGH
INCOME
HH *S | 35065. | 46096.
45593.
49303.
47951. | 51725.
49263.
53863.
50475.
55445. | 56760.
48878.
58563.
49037.
65541. | EXTENSIV
INDUST 'L
ACRES | 3767. | 3764.
3764.
3764. | 3764.
3764.
3764.
3764.
3764. | 3764.
3764.
3764.
3764.
3764. |
| UPO CO
MIDDLE
INC HH'S | 30007. | 50634.
49756.
59096.
56366. | 67349.
62297.
75011.
66951.
81744. | 85790.
70497.
88433.
69038.
91410.
68522. | NET 1ND/
NON-MFG
ACP ES | 758. | 3260.
2916.
3585. | 3883.
4003.
4328.
4492.
4581. | 5042.
5222.
5579.
5693.
5986. |
| LOWER
MI DOLE
INC HH'S | 36481. | 56364.
55346.
67059. | 72011.
72026.
87473.
79338.
97863.
85655. | 108595.
92429.
116818.
94895.
125136. | NET IND!
MANUF.G
ACRES | 1442. | 1649.
1331.
1569.
1224. | 1463.
1154.
1417.
1112.
1374. | 1374.
1034.
1350.
1002.
1240.
892. |
| I NC OME
HH 'S | 11733. | 15444.
15162.
18746. | 22422.
20896.
26209.
23908.
30254.
26726. | 33564.
29484.
35999.
29522.
37818. | NET COM-
MFRCIAL
ACRES | 6473. | 12230.
12032.
13043.
12485. | 14102.
13990.
15801.
14857.
17362. | 18931.
16588.
21204.
17753.
22713. |
| TOTAL
EMPLNY- | 143967. | 246627.
217752.
268814.
235641. | 283821,
264427,
315993,
283969,
344265, | 374641.
318018.
415839.
340903.
440963. | NET RES-
IDENTIAL
ACRES | 33020. | 58082.
57619.
68480.
67244. | 74711.
72593.
82354.
78879.
86694. | 85454.
76063.
89405.
76616.
94321. |
| TOTAL
HOUSE-
HOLDS | 113285. | 168538.
165857.
194115.
185784. | 218707.
204483.
242557.
220672.
265305.
233648. | 241288.
241288.
299813.
242492.
319906.
246590. | .USED.
ACRES | 41693. | 75220.
73897.
86676.
84330. | 94159.
91740.
103900.
99340.
110010. | 110801.
98906.
117537.
101063.
124260. |
| PJPULA-
T TON | 412356. | 574399.
565492.
649261.
621932. | 684137.
684137.
805144.
733711.
869732. | 931466.
792426.
974715.
791123.
1039788. | VACANT
(AVATL)
ACRES | 138912. | 100856.
102425.
87339. | 78254.
.81059.
66614.
71941.
59383. | 58195.
71793.
50223.
69182.
42331. |
| | 1960 | 1980 HIGH
1980 LOW
1990 HIGH
1990 LOW | 2000 HIGH
2010 LCW
2010 HIGH
2020 HIGH
2020 HIGH | 2030 HIGH
2040 LOW
2040 HIGH
2040 LCW
2050 HIGH 1 | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2000 LDW
2010 HIGH
2010 LOW
2020 HIGH
2020 LCW | 2030 HIGH
2030 LCW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LCW |

METROPOLITAN DISTOICT COMMISSION -- WASTEMATED STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| TOTAL TOTAL LOW POPULA— HOUSE— FMPLOY— INCOME TION HOUSE— FMPLOY— INCOME TION HOUSE— FMPLOY— INCOME 175431. 46808. 43673. 4632. 234640. 62087. 66511. 6130. 267987. 74544. 86387. 7413. 327049. 92977. 117918. 9455. 321049. 92977. 117918. 9455. 321049. 101025. 113058. 11261. 3861794. 112021. 152588. 11369. 474914. 138956. 174994. 13396. 474914. 138956. 17499. 15179. 415355. 121387. 152588. 11969. 441907. 130028. 189015. 13161. 441907. 130028. 189015. 15179. 445181. 185166. 285452. 21538. 445181. 185166. 285452. 21533. 462196. 137979. 237781. 15015. 462196. 137979. 237781. 15615. VACANT USED: 10FNTIAL MERCIAL ACPES 109079. 23046. 17919. 2564. 94822. 35551. 25092. 5402. 86099. 43905. 31742. 6277. 86099. 43905. 31742. 6277. 86099. 43905. 31742. 6277. 86099. 43905. 31742. 6277. 86099. 43905. 31742. 6277. 86099. 52196. 37639. 6838. 68582. 57587. 43310. 8008. 77425. 50391. 37639. 64525. 60142. 64687. 48760. 9461. 5000. 59979. 64817. 48786. 10120. | UPPER HIGH "DRY" "WET" VERY WET INDUST./ MIDDLE INCOME MANUES MANUES MANUES | INC HH'S INC HH'S EMPLOYMT EMP | 29184. 22757. 16615. 16936. 7831. 362. 23893. 48123.
28625. 22290. 16217. 13513. 6357. 332. 19935. 46151.
35313. 27526. 20684. 18524. 8470. 158. 30490. 60276.
33366. 26242. 19739. 14257. 6773. 149. 27207. 56499. | 40887. 32240. 24109. 19895. 8310. 200. 34140. 74062. 38021. 3034. 22539. 14384. 6554. 200. 34538. 74760. 46608. 36782. 27158. 20212. 7956. 200. 41622. 95861. 42231. 33303. 24519. 14568. 6137. 200. 42584. 89099. 52542. 41152. 30083. 20354. 7401. 200. 46449. 120153. 45977. 35951. 26064. 14891. 5617. 200. 47876. 105910. | 58436, 44240, 33078, 20673, 6915, 200, 53253, 141345, 4931, 37807, 27364, 15089, 3660, 200, 54089, 115978, 52293, 47385, 35316, 20401, 5243, 200, 61006, 171278, 51740, 37439, 27850, 14652, 2502, 200, 67472, 192900, 52978, 31674, 14347, 1653, 200, 66299, 155281, | NET IND/ NET IND/ EXTENSIV EXTENSIV STORETS/ PESTPICT MANUFIG NON-4FG INDUSTIL INSTITUT HIGHWAYS OPEN TOTAL ACRES ACRES ACRES ACRES ACRES SPACE AC | 1825. 738. 4285. 36. 7446. 19699. 163591.
4015. 1043. 4285. 36. 9198. 19699. | 4085. 1800. 4285. 36. 10230. 20036.
3922. 1579. 4285. 36. 10077. 20013.
4125. 2162. 4285. 36. 11182. 20601.
3936. 1979. 4285. 36. 10934. 20520. | 3883. 2386. 4285. 36. 12138. 20964.
3563. 2423. 4285. 36. 11926. 20850.
3625. 2841. 4285. 36. 13033. 21408.
3215. 2904. 4285. 36. 12625. 21218.
3206. 3143. 4285. 36. 13649. 21699.
2677. 3233. 4285. 36. 13034. 21441. | 3176. 3557. 4285. 36. 13980. 21752. |
|--|---|--|--|--|---|--|---|--|--|-------------------------------------|
| TOTAL TOTAL TOTAL LOPPULA - HOUSE - FMPLOY - INC TION HOUSE - FMPLOY - INC TION HOUSE - FMPLOY - INC TION FIRST - FMPLOY - INC TION FIRST - FMPLOY - INC TION FIRST - FMPLOY - | | | 3. 29 | 1. 46
9. 52
6. 52 | 7. 58
0. 65
5. 72 | Z | | 5. 41 | 5. 38 80
32 36 37 | 12491. 3176. |
| TOTAL TOTAL POPULA— HOLSE— TION HOLSE— HOLSE— HOLSE— HOLSE— S24640. 62087. 254987. 257987. 327049. 327049. 355124. 101025. 428959. 123709. 355124. 101025. 42939. 12387. 185166. 441907. 138956. 441907. 138956. 441907. 138956. 445181. 137058. 445181. 137058. 445181. 137058. 445181. 137058. 445181. 137058. 42939. 52591. 52912. 52196. 77425. 57597. 68582. 57597. 69687. 64687. 64687. 64687. 64687. 64687. | -1 | | 84. 9 | 7 7 7 | 15. 18
17. 21
81. 23 | | 9. | • • | 9. 8
5. 11 | 51918. 12, |
| TOTAL POPULATION 175431. 234640. 234640. 273661. 267987. 310433. 381062. 355124. 428959. 449969. 445181. 446181. 44618 | TOTAL
HOUSE- | 46808.
62087. | ; & | | | | 23046. | 43905.
42933.
52196.
50391. | 57587.
55759.
64687.
61370.
69699. | 71142. |
| 1960
1970
1970
1970
1970
1970
1970
1970
197 | TATAL
POPULA- | 175431.
234640. | 273661.
267987.
327049.
310433. | | 2 2 3 | VACANT
(AVATL)
ACPES | 109079. | 00 N | 68582.
70736.
60142.
54058.
54223. | 52396. |
| 202 202 202 202 202 202 202 202 202 202 | SOUTHWEST | 1960 | 1980 HIGH
1980 LPW
1990 HIGH
1990 LPW | 2000 HIGH
2003 LOW
2010 HISH
2010 LOW
2020 HIGH
2020 LOW | 2030 HIGH
2030 LCW
2040 HIGH
2050 HIGH
2050 HIGH | | 1960 | 1980 HIGH
1980 LOW
1990 HIGH | 2000 HIGH
2000 LCW
2010 HIGH
2010 LCW
2020 HIGH
2020 LCW | 2030 HTGH
2030 LOW |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

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| 104 |
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| SEC |
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| Z |
| N |
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| AST |
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| SOUTHE |
| - |
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| TOTAL
HOUSE- | 710 | EMPLOY- | TACOME
HH'S | LONER
MI DDLE
INC HH'S | UPPER
MIDDLE
INC HH'S | HIGH
INCOME
HH'S | MANUF G | MANUF G | VERY WET MANUF G | INDUST./
NON-MFG.
EMPLOYMT | COMMER-
CIAL
EMPLOYMT | |
|--|---|--|--|--|--|--|--|---|--|--|---|--|
| 84917. 67659.
104673. 102509. | 1025 | 67659. | 8818.
11453. | 32882. | 24358. | 18858. | 19963. | 4990. | | 8394. | 34296. | |
| 116990. 129365.
11697. 11997
135199. 141482.
126969. 129019 | 1293 | 9365.
119970.
1482.
129019. | 13144.
12915.
15154.
14424. | 47429.
46606.
54159.
51524. | 33899.
3343.
37493.
35507. | 24518.
24134.
28393.
25515. | 22899.
20793.
22034. | 4116.
3456.
4343.
3568. | •••• | 27144.
22586
32263.
28935 | 75201.
73127.
82842.
76942. | |
| 144981. 146420.
134495. 156421
162957. 15669
146734. 14673
175481. 167890.
145354. 15264 | 14642
1461
15868
146
16789 | 140420.
140422.
18689.
146734.
7890. | 16944.
15888.
18752.
17212.
20612.
18354. | 60131.
55799.
65848.
59358.
71741. | 39914.
36714.
42108.
37449.
43892. | 32893.
26092.
36248.
26516.
39247. | 20578.
18582.
19117.
17340.
17933. | 4164.
3625.
3919.
3306.
3617. | | 33505.
33044.
37079.
36504.
38401. | 88174.
85171.
98575.
89583.
107940. | |
| 147375. 184388.
147375. 15886.
193291. 209272.
147543. 17117.
201385. 227905.
150937. 19015 | 18438
158
20927
171
22790 | 84388.
158866.
09272.
171172.
27905. | 23048.
20190.
25104.
20455.
26901. | 77583.
64846.
82687.
64952.
87355. | 45856.
36123.
45832.
36020.
46660. | 41392.
26216.
39669.
26116.
40470. | 17271.
14667.
16753.
13421.
18502.
12030. | 3296.
1934.
2949.
1303.
2456. | | 42845.
41824.
47991.
6274.
51405. | 120976.
100441.
141579.
110173.
155542. | |
| ÄE | NET R
IDENT | 1- | | MET IND/
MANUF G
ACRES | | EXTENSIV
INDUST*L
ACRES | EXTENSIV
INSTITUT
ACRES | STREFTS/
HIGHWAYS
ACRES | RESTRICT
OPEN
SPACE AC | TOTAL ACRES | ACRES | |
| 33518. 28166.
46699. 37629.
55933. 45302.
54025. 4474.
62731. 51260.
60799. 4989 | 2816
3762
4530
5126
49 | 3166.
7629.
5302.
44741.
1260. | 3353.
6439.
7112.
6970.
7670. | 973.
1019.
1034.
963.
1007. | 1026.
1611.
2484.
2750.
2795. | 2786.
2786.
2786.
2786.
2786. | 5771.
5771.
5771.
5771. | 9297.
10875.
12034.
12824.
12545. | 33892.
33890.
34250.
34743. | | 163340. | |
| 65275. 53425.
63305. 5160
59079. 56378.
65948. 5376.
71224. 57870. | 5.5
2.6
2.6
3.6
3.6
3.6
3.6
3.6
3.6
3.6
3.6
3.6
3 | 53425.
51604.
56378.
53768.
57870. | 8026.
7907.
8702.
8208.
9322.
8600. | 956.
887.
915.
845.
866. | 2868.
2906.
3084.
3127.
3166. | 2786.
2786.
2786.
2786.
2786. | 5771.
5771.
5771.
5771. | 13346.
13088
13797.
13383.
14075. | 34936.
34826.
35185.
35332.
35332. | | | |
| 72058. 57641.
64846. 51702
75243. 59170.
66059. 52019
77604. 60545. | 591
591
503 | 52019.
52019.
52019.
52878. | 10161.
8995.
11538.
9681.
12303. | 818.
691.
782.
626.
806. | 3457.
3457.
3753.
3733.
3950. | 2786.
2786.
2786.
2786.
2786. | 5771.
5771.
5771.
1772. | 14266.
13407
15011.
13674.
15733. | 35384.
35145
35564.
35750. | | | |

METROPOLITAN DISTRICT COMMISSION--WASTEWATER STUDY ACTIVITY HISTORY AND EMPIRIC ACTIVITY ALLOCATIONS 1960 - 2050

| | _ |
|-----|--------|
| - | |
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| | PEGION |
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| | STUDIN |
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| - | STIJDY |
| - | STUDDY |
| - | |

| INDUST./ COMMER-
NON-MFG. CIAL
EMPLOYMT EMPLOYMT | 191487. 588210.
237834. 849559. | 400001, 900000.
350000, 879999.
425000, 950001.
400000, 900000. | 435000, 1005001,
430000, 970000,
465006, 1100002,
460000, 1015001,
480005, 1200013,
475001, 1075000, | 510000, 1300005,
505000, 1120001,
550000, 1450007,
540006, 1195010,
575500, 1550006, | TOTAL ACPES | 1021295. | | | |
|--|------------------------------------|--|---|--|-------------------------------|--------------------|---|--|--|
| VERY WET I
MANUF 'G N
EMPLOYMT E | 3652. | 2004.
1904.
1500.
1500. | 1000.
1000.
1000.
1000.
1000. | 1000.
1000.
1000.
1000.
1000. | RESTRICT
OPEN
SPACE AC | 162708.
162185. | 164243.
164122.
167415.
167018. | 169184.
168615.
171469.
170501.
172948. | 173397.
171691.
174829.
172062.
176558. |
| MANUF G | 81384. | 70000.
58000.
65000.
53000. | 60000.
48000.
55000.
43000.
50001. | 45000.
25449.
40002.
13000.
35000. | STPEFTS/
HIGHWAYS
ACRES | 62110. | 79081.
77883.
84223.
82395. | 86335.
92301.
89549.
95539. | 97047.
90881.
100979.
92445.
104518. |
| MANUF.G | 238942. | 215001.
170001.
210001. | 2522. 205001.
228190. 160001.
1303. 200001.
238976. 155002.
9940. 195001.
247086. 150001. | 190001.
185001.
180001.
180003. | EXTENSIV
INSTITUT
ACRES | 12194. | 12178.
12178.
12178. | 12178.
12178.
12178.
12178.
12178. | 12178.
12178.
12178.
12178.
12178. |
| HIGH
INCOME
HH'S | 168369. | 206138. 2
203228.
224410. 2
216402. | 242522.
228190.
261303.
238976.
279940. | 287951.
251605.
296755. 1
253293.
326600. | EXTENSIV
INDUST'L
ACRES | 22123. | 22062.
22062.
22062.
22062. | 22062.
22062.
22062.
22062.
22062.
22062. | 22062.
22062.
22062.
22062.
22062.
22062. |
| HODER
NTODE
INC HH'S | 210460. | 257671.
254035.
280512.
270502. | 303153.
285238.
326630.
298719.
349926. | 371627.
314047.
389028.
316093.
408152.
317001. | NET INN/
NON-MEG
ACOES | 7325. | 18150.
16060.
20457.
19157. | 21292.
21290.
23149.
23352.
24174. | 26250.
26540.
28706.
30504. |
| LOWER
MIDDLE
INC HH'S | 336738. | 412276.
406456.
448820.
432802. | 485045.
456380.
522608.
477951.
559881. | 591451.
499430.
620407.
503896.
653200.
508702. | NET IND/
MANUE'S
ACRES | 8009. | 10452.
9304.
10341. | 9816.
8486.
9331.
7914.
8670. | 8460.
5993.
8247.
5723.
7833. |
| LOW
INCOME
HH'S | 126275. | 154524.
152346.
168278.
162267. | 181881.
171127.
195972.
179222.
209952.
185308. | 222156.
187997.
233001.
189004.
244950. | NET COM-
MERCIAL
ACPES | 28692. | 53484.
52367.
56849.
54028. | 61308.
60010.
67490.
63642.
73436. | 80494.
71507.
00483.
76743.
97009.
84894. |
| TOT AL
EMPLOY-
MENT | 1103671. | 1587005.
1459901.
1651496.
1519496. | 1705995.
1608996.
1821000.
1673995.
1926006. | 2045990.
1796440.
2225991.
1894005.
2341497.
2034007. | NET RES-
INFNTIAL
ACRES | 155273. | 252283.
245360.
291921.
284851. | 312025.
301381.
339322.
322685.
355372. | 353201.
311499.
368146.
312728.
387219. |
| TOTAL
HOUSE-
HOLPS | 9481845. | . 1016072.
1122024.
1081978. | 1212599.
1140937.
1306511.
1194867.
1399694. | 1473178. 2
1253079. 1539184. 2
1262287. 1632894. | *USED * | 199249. | 334383.
327092.
379567.
367153. | 404442.
391166.
439292.
417595.
462053. | 468407.
415540.
495583.
423912.
522567.
438875. |
| TOTAL
POPULA-
TION | 2847943. | 3360632. 1
3313289.
3631303. 1
3500965. | 3691723.
4193837. 11
3837536.
4455688. 11
3936803. | 4674032. 14
3969912.
4853099. 1
3965848.
5133908. 16
3997819. | VACANT
(AVATL)
ACRES | 562906. | 409342.
417953.
355843.
370482. | 325415.
343933.
283987.
309404.
256509. | 248199.
308934.
215659.
298627.
183406.
280521. |
| | 1960 2 | 1980 HIGH 3 1980 LOW 1990 LOW | 2000 HIGH 2000 LOW 2010 HIGH 4 2010 LCW 2020 HIGH 4 | 2030 HTGH 4
2030 LCM
2040 HTGH 4
2040 LCW
2050 HTGH 5 | | 1960 | 1980 HIGH
1980 LIN
1990 HIGH
1990 HIGH | 2000 HIGH
2009 LDW
2010 HTGH
2010 LTW
2020 HIGH
2020 HIGH | 2030 HIGH
2020 LPW
2040 HIGH
2050 HIGH
2050 HIGH
2050 LPW |

APPENDIX M

SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT
DESIGN
LOW FORECAST | 700.
1800.
6900.
8500.
11900. | EMPLOYMENT
DESIGN
LOW FORECAST | 4800.
5100.
4400.
3900.
3200. | | EMPLOYMENT DESIGN LOW FORECAST | 1100.
2100.
7100.
9200.
13300. | EMPLOYMENT
DESIGN
LOW FORECAST | 500.
1200.
3400.
4000.
5200.
6500. |
|-------|---|---|---|--|---|---|--|---|---|
| | EMPL | 6300.
8100.
10900.
14500. | ENPLO | 4300.
3900.
3400. | | EMPLC | 6900.
9500.
13000.
18200. | | 3100.
3900.
4800.
6100. |
| | HIGH | 7600.
8900.
12800.
17700. | OTHER
HIGH | 4500.
3900.
3100.
3100. | | 07HER | 7300-
9000-
13700-
20900- | OTHER | 3700.
4200.
5500.
6900. |
| | APLOYMENT
DESIGN
FORECAST | 1500.
800.
1500.
1500.
1700. | PLOYMENT
DESIGN
FORECAST | 300.
400.
200.
200.
100. | | PLOYMENT
DESIGN
FORECAST | 1800.
2900.
3800.
3900.
3900. | PLOYMENT
DESIGN
FORECAST | 100.
1100.
1100.
1000.
600. |
| | JRING EMP | 1200.
1200.
1400.
1500. | JRING EMP | 200. | | JR ING EMI | 3400.
3400.
3400.
3300. | JRING EMF | 9000 |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOM FORECAST | 1900.
1800.
2000.
2100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 300.
200.
100.
200. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 4200.
4300.
4300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1300.
1200.
1100.
600. |
| | DESIGN
FORECAST | 2200.
2600.
8500.
10000.
13600. | MENT
DESIGN
FORECAST | 5200.
5600.
4600.
4100.
3300. | | DESIGN
PORECAST | 2900.
4900.
10900.
13000.
17200.
23400. | MENT
DESIGN
FORECAST | 600.
2100.
4500.
5100.
6100. |
| | EMPLOYMENT
DESIGN
LOW FORECAST | 7500.
9300.
12300.
16000. | EMPLOYMENT
DESI
LOW FORECA | 4500.
4100.
3300.
3400. | | FMPLOYMENT
DESIG
LCW FORECAS | 10300.
12900.
16400.
21500. | EMPLOYMENT
DESIGN
LOW FORECAST | 4800.
5600.
6600. |
| | TOTAL | 9500.
10700.
14800.
19800. | TOTAL | 4700.
4100.
3300. | | TOT AL | 11600.
13200.
18000.
25300. | TOTAL | 4900.
5400.
6600.
7500. |
| | DESIGN
FORECAST | 7200.
14800.
26500.
32800.
43000.
57000. | AT I ON
DE S I GN
FORECAST | 50000.
53600.
54000.
53000.
45100. | | DESIGN
FORECAST | 7800.
8900.
14400.
17500.
22200.
26400. | TION
DESIGN.
FORECAST | 4300.
5300.
7700.
8700.
10500. |
| | POPULAT | 25700.
31500.
39800.
48000. | POPULATION
DESI
LOW FORECA | 53600.
53200.
52100.
41900. | | POPULATION DESIGN LOW FORECAST | 13900.
16800.
20400.
22400. | POPULAT | 7500.
8400.
9700. |
| ACTON | HIGH LOW FOR | 27400.
34200.
46300.
65900. | ARLINGTON
TOTAL
HIGH | 54400.
54800.
53900.
48300. | | H1GH | 14900•
18300•
23900•
30300• | AVONTOTAL POPULATION DESIGN HIGH LOW FORECAST | 8000.
9100.
11300. |
| - | | 1960
1970
1990
2000
2020
2050 | ~ | 1960
1970
1990
2000
2020
2050 | • | | 1940
1970
1990
2000
2020
2050 | 4 | 1960
1970
1990
2000
2020
2050 |

| | EMPLOYMENT DESIGN LOW FORECAST | 4700.
10400.
18200.
20700.
26800.
35600. | | HIGH LOW FORECAST | 700.
1200.
2700.
3800.
6700.
13400. | | DESIGN
FORECAST | 3100.
4200.
4600.
4900.
5500. | EMPLOYMENT | 1000.
1000.
2200.
5300.
11800. |
|---------|---|---|------------|---|---|---------|---|--|-----------------|--|
| | | 17100.
20000.
24900.
33300. | | IER EMPLC | 2400.
3700.
6200.
11600. | | OTHER EMPLOYMENT
DESIG
11GH LOW FORECAS | 4300.
4600.
4900.
5800. | HER EMPL | 900.
2200.
4900.
10500. |
| | 0THER
H1GH | 19300-
21400-
28600-
37800- | | H16H | 2900•
3800•
7200•
15100• | | нтен | 4800.
4600.
4900.
5200. | OTHER | 1100.
2200.
5800.
13100. |
| | MPLOYMENT
DESIGN
FORECAST | 2500.
7100.
8100.
8200.
7900. | | PLOYMENT
DESIGN
FORECAST | 500.
300.
500.
500. | | PLOYMENT
DESIGN
FORECAST | 200.
300.
100.
0. | PLOYMENT | 100.
200.
100.
300. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 7500•
7500•
7600•
7300• | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 400
400
500
600 | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1000 | 2 | 1000. |
| | MANUFACT | 8800.
8800.
8900. | | MANUFACT | 600.
600.
700.
1700. | | MANUFACT | 1000. | MANUFACT | 2000
2000
4000
4000 |
| | DESIGN
FORECAST | 7200.
17600.
26300.
28800.
35000. | | EMPLOYMENT DESIGN LOW FORECAST | 1500.
1500.
3200.
4300.
7300.
14500. | | MENT
DESIGN
FORECAST | 3300.
4500.
4600.
4700.
5000. | EMPLOYMENT | 400-
200-
1100-
2300-
5500- |
| | EMPLOYMENT DESI LOW FORECA | 24600.
27500.
32500.
40600. | | EMPLOYN | 2900•
4200•
6700•
12100• | | EMPLOY | 4400.
4600.
4900.
5900. | EMPLOYM | 1000.
2300.
5000. |
| | HIGH | 28100.
30200.
37500.
46200. | | HIGH | 3400.
4400.
7900.
16900. | | T0TAL | 4900.
4700.
5000.
5200. | T0TAL | 1300.
2300.
5900. |
| | 10N
DESIGN
ORECAST | 11000.
13500.
18500.
18800.
17800. | | DESIGN
DRECAST | 6800.
14000.
15700.
17300.
19800.
26500. | | ION
DESIGN
ORECAST | 28700.
28300.
29000.
28000.
27200. | JON
DESIGN | 1700.
2200.
5400.
8200.
13400.
22900. |
| | POPULAT | 18700.
18500.
16300.
12000. | | POPULAT | 15400.
16700.
18400.
22200. | | -TOTAL POPULAT | 28600.
27500.
26100.
24400. | TA. | 5100.
7700.
11800.
18400. |
| 8606083 | H16H | 18200.
19003.
19200.
16500. | BELLINGHAM | TOTAL | 16000.
17800.
21100.
30900. | BELMONT | T0TAL | 29500.
28500.
28300.
30000. | BERLIN
TOTAL | 5700.
8700.
14900.
27300. |
| • | | 1940
1970
2000
2020
2050 | • | | 1960
1970
1990
2000
2020
2050 | 1 | | 1960
1970
1990
2000
2020
2050 | 60 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | DESIGN
FORECAST | 3800.
6500.
12100.
13100.
14000. | DESIGN
FORECAST | 1400.
3700.
10500.
13500.
26100. | | DESIGN
FORECAST | 100.
600.
600.
1100.
3500. | DESIGN FORECAST | 100.
100.
900.
1800.
11000. |
|---------|---|--|---|--|--------|---|--|---|--|
| | EMPLC | 11400.
12700.
13300.
14400. | EMPLC | 10300.
13900.
19400.
24500. | | ENPLO | 600.
1100.
3200.
8800. | CTHER EMPLOYMENT
DESIG
1GH LOW FORECAS | 700.
1800.
3700. |
| | OTHER
HIGH | 12800.
13500.
14800.
16400. | OTHER | 19800.
13000.
20200.
27700. | | HIGH | 600.
1000.
3800.
10900. | HIGH | 1000.
1800.
4300.
12300. |
| | PLOYMENT
DESIGN
FORECAST | 5000.
3700.
3700.
3500.
2800. | 4PLOYMENT
DESIGN
FORECAST | 800.
1700.
2100.
2100.
2200. | | PLOYMENT
DESIGN
FORECAST | 0.
300.
600.
600.
800. | APLOYMENT
DESIGN
FORECAST | 1000.
2000.
5000. |
| | RING EMP | 3200.
3200.
2900.
2200. | JRING EMP | 1900.
1900.
2000.
1600. | | IRING EMP | 500.
500.
700. | RING EMP | 1000. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 4300.
4300.
4100.
3400. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOPECAST | 2300.
2300.
2400.
2300. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 700.
600.
900.
1300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 200. |
| | MENT
DESIGN
FORECAST | 8600.
10200.
15800.
16800.
17500. | MENT
DESIGN
FORECAST | 2300.
5400.
12600.
15600.
22000.
28000. | | DESTGN
PORECAST | 100.
900.
1200.
1700.
4200. | MENT
DESIGN
FORECAST | 100.
100.
1000.
1900.
4200. |
| | EMPLOYMENT DESI LOW FORECA | 14600.
15800.
16100. | EMPLOYMENT
DESIG
LOW FORECAS | 12200.
15800.
21400.
26100. | | EMPLOYMENT DESIG | 1100.
1600.
3900.
10100. | EMPLOYMENT
DESIG
LOW FORECAS | 800.
1900.
3800.
10000. |
| | T0TAL | 17100.
17800.
18900.
19800. | T0TAL | 13100.
15400.
22600.
29900. | | TOTAL | 1300.
1700.
4600.
12200. | T0TAL | 1100.
1900.
4500.
12800. |
| | DN
DESIGN
RECAST | 36100.
38400.
51900.
57800.
66100. | DN
DESIGN
RECAST | 17900.
31600.
39700.
42900.
48500. | | DE SI GN | 1300.
1800.
4700.
6700.
12200.
29400. | ON
DESIGN
RECAST | 700.
1500.
5300.
8200.
13300. |
| | PDPULATION
DE
LCW FORE | 51000.
56400.
62600.
64700. | POPULATION
DESIGN
LOW FORECAST | 38700.
41500.
45800.
40700. | | POPULATION
DESI
LOW FORECA | 4500.
6400.
10700.
21200. | POPULATION
DESI
LOW FORECA | 5000.
7700.
11800.
18100. |
| BEVERLY | T0TAL | 52800.
59300.
69700.
75000. | BILLERICA
TOTAL
HIGH | 40600.
44200.
51300.
53600. | BOLTON | HIGH | 4900.
7100.
13700.
37700. | BOXBOROUGH
TOTAL
HIGH | 5600.
8700.
14800.
27400. |
| • | | 1960
1970
1990
2000
2020
2050 | ct | 1960
1970
1990
2000
2020
2050 | ı | | 1960
1970
1990
2000
2020
2050 | 12 | 1960
1970
1990
2000
2020
2050 |

METROPCLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1966 - 2050)

| | EMPLOYMENT DESIGN LOW FORECAST | 200.
200.
600.
2300.
7000. | DYMFNT
DESIGN
FORECAST | 3500.
12200.
16400.
17200.
18200.
20600. | | EMPLOYMENT | 7800.
9000.
8900.
7800. | | EMPLOYMENT DESIGN LOW FORECAST | 5200-
6000-
6400-
7000-
8600- |
|---------|---|---|---|--|---------------|---|--|---------------|---|--|
| | EMPL
LOW | 2300.
7000.
20900. | DESIGN TOW FORECAST | 16200.
17300.
17900.
20000. | | LOW | 8700.
8400.
7800. | | | 6200.
6600.
6800. |
| | н16н | 2300.
7000.
24100. | HIGH | 16700.
17100.
18400.
21100. | | OTHER
HIGH | 9000.
8300.
7800.
8000. | | HIGH | 6700.
5900.
7300.
8800. |
| | MPLOYMENT
DESIGN
FORECAST | 200.
300.
1000. | PLOYMENT
DESIGN
FORECAST | 3500.
4200.
3300.
3200.
1000. | | PLOYMENT
DESIGN
FORECAST | 300.
300.
100.
200. | | PLOYMENT
DESIGN
FORECAST | 1000. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1000.
1000.
1200. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2900.
3200.
2500.
1000. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 1000. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 2000 |
| | MANUFACT | 200.
300.
1000.
1500. | MANUFACT | 3700.
3200.
2500.
1100. | | MANUFACT
HIGH | 100. | | MANUFACT
HIGH | 100. |
| | EMPLOYMENT DESIGN LOW FORECAST | 200.
200.
700.
2600.
8000. | MENT
DESIGN
FORECAST | 7100.
16500.
19700.
20400.
20700.
21600. | | EMPLOVMENT DESIGN LOW FORECAST | 8100.
9300.
9000.
8500.
7800. | | EMPLOYMENT DESIGN LOW FORECAST | 5200.
6100.
6500.
6800.
7000. |
| | EMPLOY | 700.
2600.
8000.
22100. | EMPLOY | 19100.
20500.
20400.
21000. | | EMPLOY | 8500.
7800.
7400. | | EMPLO | 6300.
6600.
6800.
8600. |
| | TCTAL | 700.
2600.
8000.
25600. | HIGH | 20400.
20300.
20900.
22200. | | TOTAL | 9100-
8400-
7800-
8200- | | HIGH | 6700.
6900.
7300. |
| | DESIGN
FORECAST | 2000-
4000-
8200-
10600-
16500-
29600- | TION
DESIGN
FORECAST | 31100-
35100-
42900-
47600-
52200-
54700- | | DESIGN
FORECAST | 29300.
30700.
32400.
31700.
29900. | | TION
DESIGN
FORECAST | 24700.
27500.
31600.
33200.
33500. |
| | POPULATIGN
DESIGN
LOW FORECAST | 8000.
10100.
14800.
23300. | POPULA | 41900.
46200.
49400.
48900. | 60 | POPULATION
DESIG
LOW FORECAS | 32100.
31600.
30100.
27500. | í. | TOTAL POPULATION
DESIGN
IIGH LOW FORECAST | 31100.
31400.
31500.
28400. |
| BOXFORD | T0TAL | 8500.
11100.
18303.
35900. | BRAINTREETOTAL HIGH | 43800.
49000.
55000.
60603. | BROCKLINE (D) | TOTAL | 32700.
31803.
29700.
28500. | BROOKLINE (N) | T0TAL | 32100.
35000.
35500.
34600. |
| 13 | | 1960
1970
1990
2000
2020
2050 | 41 | 1960
1970
1990
2000
2020
2050 | 15 | | 1960
1970
1990
2000
2020
2050 | 16 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | 185 | 666666 | 135 | 44444 | | 1 % LS | 666666 | | 1 35 | 666666 |
|------------|---|--|---|---|--------|---|--|----------|---|--|
| | EMPLOYMENT DESIGN LOW FORECAST | 1700-
18400-
34600-
35700-
36800-
36900- | EMPLOYMENT
DESIGN
LOW FORECAST | 46400
61400
67000
64000
59000
50900 | | VMENT
DESIGN
FORECAST | 1800.
4900.
11800.
13100.
16000. | | EMPLOYMENT
DESIGN
LOW FORECAST | 200.
2000.
2700.
4000. |
| | EMPL | 32400.
34200.
34200.
35200. | EMPLO | 67000.
64000.
59000. | | OTHER EMPLOYMENT
DESIGN
IGH LOW FORECAS | 11500.
13200.
15600. | | EMPL | 2000. |
| | HIGH | 36800.
37300.
39300.
38600. | HIGH | 64000.
64000.
59000.
50700. | | нтен | 12100.
13000.
16300.
20200. | | HIGH | 2000.
2700.
4000.
9500. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 2800.
3700.
4000.
4000.
3800. | MANUFACTURING EMPLOYMENT
CESIGN
HIGH LOW FORECAST | 25500.
22200.
12700.
12500.
9800. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1800.
2800.
2800.
2600.
2100. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 200.
300.
300.
300. |
| | URING EN | 3500.
3600.
3600. | URING EN | 10300.
10100.
7700.
8500. | | URING EN | 2400.
2300.
1700.
800. | | URING EN | 200. |
| | MANUFACT
HIGH | 4400.
4400.
4200. | MANUFACT | 15200-
14800-
11900-
10500- | | MANUFACT | 3100.
3000.
2500.
1300. | | MANUFACT | 300.
300.
200.
400. |
| | DESIGN
FORECAST | 4500.
22100.
38600.
39700.
40800. | MENT
DESIGN
FORECAST | 71900.
83600.
79700.
76500.
68800. | | MENT
DESIGN
FORECAST | 3600.
7700.
14600.
15800.
18000.
20600. | | DESIGN
FORECAST | 200.
300.
2200.
3000.
4200. |
| | EMPLOYM
LOW F | 36000.
37700.
37800.
38600. | EMPLOYMENT
DESIG
LOW FORECAS | 77300.
74100.
66700.
59700. | | EMPLO | 13900.
15500.
17300.
19600. | | EMPLOYMENT
DESI
LOW FORECA | 2200.
2900.
4200.
9200. |
| | DESIGN LOW FORECAS | 41200.
41600.
43700. | T0TAL | 82200.
78800.
70900.
61100. | | T0TAL | 15200.
16000.
18800.
21600. | | TOTAL | 2300.
3000.
4200.
9900. |
| | DESIGN
PORECAST | 12900.
22000.
31300.
33100.
32300.
24600. | TION
DESIGN
FORECAST | 107700.
100400.
104400.
106800.
103800.
91300. | | ATION
DESIGN
FORECAST | 12800.
17100.
29100.
34600.
42900.
51400. | | DESIGN
FORECAST | 1500.
2900.
11500.
14900.
20400.
27300. |
| | POPULAT | 30400.
32700.
32300.
22800. | POPULA | 103600.
105000.
101500.
84300. | | POPUL | 28200.
33300.
39800.
43900. | | NO1 | 11100.
14200.
18700.
24700. |
| BURLINGTON | HIGH LOW FORE | 32100.
33400.
32400.
26400. | CAMBRIDGE
TOTAL
HIGH | 135300.
136600.
106000.
98200. | CANTON | HIGH | 30000.
36000.
46000.
58900. | CARLISLE | T0TAL | 11900.
15500.
22200.
29900. |
| 11 | | 1960
1970
1990
2000
2020
2050 | 18 | 1960
1970
1990
2000
2020
2050 | 19 | | 1960
1970
2000
2020
2020 | 20 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT DESIGN LOW FORECAST | 1700-
4600-
8800-
10700-
16300-
20000- | EMPLOYMENT
DESIGN
LOW FORECAST | 2400.
7000.
4900.
4600.
4300.
6200. | | VMENT
DESIGN
FORECAST | 800.
1500.
3500.
6400.
6100. | | EMPLOYMENT DESIGN LOW FORECAST | 2900.
4100.
6500.
8400.
13000. |
|------------|---|---|---|--|----------|---|--|---------|---|--|
| | EMPLO | 8300.
10500.
15200.
18200. | EMPLO | 4700.
4400.
4100.
5700. | | OTHER EMPLOYMENT
DESIGN
1GH LOW FORECAST | 3200.
4300.
5700.
6900. | | FUPLC | 6100.
8300.
13100.
29100. |
| | OTHER
HIGH | 9400.
10900.
17400.
21900. | HIGH | 5100.
4800.
4500.
6700. | | н16н | 3700.
4400.
6400.
6300. | | HIGH | 7000-
8500-
12900-
33600- |
| | PLOYMENT
DESIGN
FORECAST | 1000.
1200.
1200.
1300.
1100. | PLOYMENT
DESIGN
FORECAST | 4200.
3500.
1700.
1300.
800. | | PLOYMENT
DESIGN
FORECAST | 500.
200.
100.
100.
200. | | PLOYMENT
DESIGN
FORECAST | 1200.
1300.
1700.
1700.
2500. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1000.
1000.
1100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1600.
1200.
800.
600. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 100. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1500.
1600.
1600. |
| | MANUFACT | 1500.
1500.
1500. | MANUFACT | 1800.
1300.
900.
900. | | MANUFACT | 200.
1000.
3000. | | MANUFACT | 1900.
1900.
1900.
3600. |
| | MENT
DESIGN
FORECAST | 2700.
5300.
10100.
11900.
17600. | MENT
DESIGN
FORECAST | 6600.
6600.
5800.
5100.
6900. | | MENT
DESIGN
FORECAST | 1300.
1600.
3600.
4500.
6100. | | MENT
DESIGN
FORECAST | 4100.
5400.
8300.
10200.
14700. |
| | EMPLOYMENT
DESI
LOW FORECA | 9300.
11500.
16300.
19200. | EMPLOYMENT
DESI
LOW FORECA | 6300.
5600.
4900.
6300. | | EMPLOYMENT
DESIGN
LOW FORECAST | 3300.
4300.
5700.
7100. | | EMPLOYMENT DESIG | 7700.
9900.
14700.
30600. |
| | HIGH | 10900.
12300.
18900.
23200. | T0TAL | 6800.
6100.
5400.
7500. | | TOTAL | 3900.
4600.
6500.
6600. | | T0TAL | 8900.
10400.
14800.
37100. |
| | ATION
DESIGN
FORECAST | 15100.
31400.
39900.
44600.
51400. | ATION
DESIGN
FORECAST | 33700.
30600.
22900.
20500.
18800. | | DESIGN
PORECAST | 5800.
7000.
11000.
12900.
15900. | | DESIGN
FORECAST | 12500.
16100.
24200.
29400.
39400.
56700. |
| | PCPULATION
DESI
LOW FORECA | 39000.
43200.
48400.
47600. | PCPULATION
DESI
LOW FORECA | 23100.
20200.
17300.
18800. | | PCPULATION
DE
LOW FORE | 10700.
12400.
14800.
16900. | | NO T | 23600.
28400.
36200.
42500. |
| CHELMSFORD | HIGH | 40900.
46000.
54400. | CHELSEA
TOTAL
HIGH | 22700.
20900.
20200.
20700. | COHASSET | TOTAL | 11300.
13400.
17100.
16730. | CONCORD | T0TAL | 24700.
30500.
42703.
70803. |
| 22 | | 1960
1970
1990
2000
2020
2050 | 52 | 1960
1970
1990
2000
2020
2050 | 23 | | 1960
1990
2000
2020
2050 | 54 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT
DESIGN
LOW FORECAST | 2400.
6000.
11000.
12100.
13800. | DESIGN
FORECAST | 4500.
9900.
14800.
15100.
14800. | | DESIGN
PORECAST | 200.
300.
600.
1200.
3000. | DESIGN HIGH LOW FORECAST | 400
1000
1000
1000 |
|---------|---|--|---|--|-------|---|---|---|--|
| | LOW LOW | 10300.
11700.
13100.
15800. | HIGH LOW FORECAS | 14100.
14700.
14200.
15500. | | DESIGN LOW FORECAS | 500.
1200.
3000.
7700. | IER EMPLO | 700.
900.
1500. |
| | HIGH | 11700.
12400.
14600.
19200. | HIGH | 15500.
15400.
15400.
17100. | | H16H | 600.
1200.
3000.
8800. | H16H | 900.
1700.
4700. |
| | PLOYMENT
DESIGN
FORECAST | 3900.
3200.
3700.
3600.
3500. | 4PLOYMENT
DESIGN
FORECAST | 2400.
2400.
2700.
2700.
2300.
1500. | | PLOYMENT
DESIGN
FOPECAST | 1000 | MPLOYMENT
DESIGN
FORECAST | 0.
200.
200.
200.
500. |
| | JRING EMI | 3300.
3300.
3200.
2800. | JR ING EMI | 2400.
2400.
2100.
1300. | | LON L | 00000 | JR ING EMF | 200. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 4000.
4000.
3900. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 3000.
2900.
2600.
1700. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOM FOPECAST | 00000 | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 300.
300.
400.
1500. |
| | DESIGN
FORECAST | 6300.
9200.
14600.
15700.
17400.
20100. | MENT
DESIGN
FORECAST | 7100.
12400.
17500.
17700.
17100. | | MENT
DESIGN
FORECAST | 200.
300.
600.
1200.
3000.
8700. | MENT
DESIGN
FORECAST | 500.
600.
1000.
1100.
2100.
5200. |
| | EMPLOYMENT
DESIGN
LOW FORECAST | 13600.
15000.
16300.
18600. | EMPLOYMENT
DESI
LOW FORECA | 16500.
17100.
16300.
16800. | | EMPLOYMENT
DESIG
LOW FORECAS | 500.
1200.
3000.
8100. | EMPLOYMENT
DESIGN
LOW FORECAST | 900.
2000.
4200. |
| | HIGH | 15700.
16400.
18500.
21500. | T0TAL | 18500.
18300.
18000. | | T0TAL | 600.
1200.
3000.
9200. | T0TAL | 1100.
1200.
2100.
6200. |
| | DESIGN
DRECAST | 21900.
26200.
33600.
35500.
34800. | DESIGN
DECAST | 23900.
27600.
26900.
29200.
29900.
24100. | | DESIGN
DESIGN
DRECAST | 2800.
4500.
8600.
10800.
14900.
21000. | TION
DESIGN
FORECAST | 4700.
7600.
10600.
12100.
15400.
22300. |
| | POPULATION DO LOW FOR | 32900•
34500•
37300•
30600• | POPULATIO
D
LOW FOR | 26300.
28400.
29500.
22400. | | POPULATIO | 8400.
10400.
13700. | POPULATIO | 10400.
11800.
14300.
18400. |
| DANVERS | HIGH | 34400.
36500.
41100.
39000. | DEDHAM
TOTAL
HIGH | 27600.
30000.
30200.
25800. | DOVER | T3TAL | 8700.
11100.
16100.
24000. | DUXBURYTOTAL HIGH | 10800.
12500.
16400.
26200. |
| 52 | | 1960
1970
1990
2000
2020
2050 | 56 | 1960
1970
1990
2000
2020
2050 | 12 | | 1940
1990
2000
2020
2050 | 58 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT DESIGN LOW FORECAST | 300.
400.
1700.
2800.
5800. | EMPLOYMENT
DESIGN
LOW FORECAST | 6100.
7500.
5600.
5300.
6500. | OTHER EMPLOYMENT DESIGN 1GH LOW FORECAST | 17100.
22400.
26200.
27000.
31200. | | HIGH LOW FORECAST | 1200.
2000.
4000.
6200.
12200.
21100. |
|-------|---|--|---|--|---|--|----------|---|--|
| | LOW | 1700.
2800.
5700. | EMPLI | 5400.
5000.
4300.
6300. | ER EMPLO | 21400.
26100.
26100.
29400. | | ER EMPLO | 3700.
6300.
12000.
19700. |
| | OTHER
H1GH | 1700.
2800.
6000.
11200. | ОТНЕР | 5800.
5600.
5300.
6700. | H1GH | 23500.
26400.
27900.
33100. | | H1GH | 4200.
6100.
12400.
22600. |
| | MPLOYMENT
DESIGN
FORECAST | 00000 | APLOYMENT
DESIGN
FORECAST | 6800.
3900.
2500.
2400.
2300. | PLOYMENT
DESIGN
FORECAST | 6900.
9800.
7500.
6000. | | MPLOYMENT
DESIGN
FORECAST | 900.
800.
1000.
1100.
1800. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FURECAST | 4 400
4 600
4 600 | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2400.
2200.
1900.
1700. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 6600.
6200.
4400.
3100. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 900.
1000.
1600. |
| | MANUFACT | 400.
500.
500. | MANUFACT | 2700•
2700•
2600•
2400• | MANUFACT | 9400.
8900.
7600.
6500. | | HIGH | 1000.
1000.
1100.
2000. |
| | MENT
DESIGN
FORECAST | 300.
500.
2100.
3100.
6200. | MENT
DESIGN
FORECAST | 12900.
11400.
8100.
7700.
8600. | EMPLOYMENT DESIGN LOW FORECAST | 16900.
26900.
30400.
33800.
33000. | | MENT
DESIGN
FORECAST | 2100.
2800.
4900.
7200.
13200.
22900. |
| | EMPLOYMENT DESIG | 2000.
3100.
6000.
10300. | EMPLOY | 7800.
7200.
6200.
8000. | EMPLOY | 28000.
32200.
30500. | | EMPLOYMENT
DESIG
LOW FORECAS | 4600.
7300.
13000.
21300. |
| | T0TAL | 2100.
3200.
6500.
11700. | TOTAL | 8500.
8300.
7900.
9100. | T07AL | 32900.
35300.
35400.
39600. | | T0TAL | 5300.
7200.
13500.
24600. |
| | DE SIGN | 2200.
2700.
5100.
6700.
10300.
16200. | DESIGN | 43500.
42500.
37400.
35600.
31700.
26800. | DESIGN
DESIGN
RECAST | 44500.
64000.
77500.
84500.
91800. | | DESTGN
PECAST | 10500.
18100.
24100.
28500.
37200.
52100. |
| | POPULATION
DESIGN
LOW FORECAS | 4900.
6400.
9200.
12500. | PCPULATIO | 37100.
34900.
30200.
25400. | POPULATION FOR | 75900.
82100.
87300.
78800. | | POPULATION
DESIG
LOW FORECAS | 23500.
27500.
34200.
43100. |
| ESSEX | HIGH | 5300.
7100.
11400.
19900. | EVERETTTOTAL HIGH | 37700.
36200.
33200.
28300. | HIGH | 79100.
86900.
96400.
132000. | FRANKLIN | T0TAL | 24700.
29500.
40200.
61100. |
| 53 | | 1960
1970
1990
2000
2020
2050 | 30 | 1960
1970
2000
2020
2020
2050 | | 1960
1970
1990
2000
2020
2050 | 32 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| EMPLOYMENT | DESIGN | 5400.
6000.
9300.
10900.
14700. | | EMPLOYMENT
DESIGN
LOW FORECAST | 400.
700.
1100.
1900.
3800.
6500. | | EMPLOYMENT
DESIGN
LOW FORECAST | 900.
1600.
6000.
7300.
9100. | | EMPLOYMENT
DESIGN
LOW FORECAST | 2800.
4700.
9200.
10600.
13500. |
|--------------------------|---------------------|--|----------|---|--|---------|---|---|---------|---|--|
| | MO1 | 8800.
10700.
14200.
17900. | | EMPL | 1000.
1900.
3600.
6000. | | FAPLO | 6000.
7600.
9100.
12600. | | EMPL(| 8600.
10300.
12600.
15700. |
| OTHER | нтен | 9700.
11200.
15200.
20500. | | н16н | 1200.
1800.
4100.
7000. | | HIGH | 6000.
7000.
9100.
13700. | | HIGH | 9900.
10900.
14400.
13600. |
| PLOYMENT | PORECAST | 2500.
2400.
2300.
2200.
2200.
1600. | | APLOYMENT
DESIGN
FORECAST | 200.
200.
400.
500. | | PLOYMENT
DESIGN
FORECAST | 300.
800.
1000.
1000.
1100. | | MPLOYMENT
DESIGN
FORECAST | 500.
1100.
1700.
1700.
1700. |
| MANUFACTURING EMPLOYMENT | LOW | 2000.
2000.
2000.
1100. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 200.
400.
1100. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 900.
1000.
800. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 1500.
1500.
1500. |
| MANUFACI | H1GH | 2600.
2500.
2500.
2100. | | MANUFAC | 200.
500.
600.
1300. | | MANUFAC | 1200.
1200.
1200.
1200. | | MANUFACT | 1900.
1900.
1900. |
| ENT | PORECAST | 7900.
8300.
11600.
13200.
16900.
20900. | | DESIGN
FORECAST | 400.
1300.
2300.
4300.
7700. | | DESIGN
FORECAST | 1200.
2400.
7000.
8300.
10200. | | MENT
DESIGN
FORECAST | 3300.
5800.
10900.
12300.
15200. |
| EMPLOYMENT | 101 | 10900.
12600.
16100.
19000. | | EMPLOY | 1200.
2300.
4000.
7100. | | EMPLOY | 6900.
8500.
10100.
13400. | | EMPLOY | 10000.
11700.
14100.
17200. |
| T0TAL | нтен | 12400-
13700-
17700-
22700- | | TOTAL
HIGH | 1400.
2300.
4700.
8300. | | T0TAL
HIGH | 7200.
8100.
10300.
14900. | | TOTAL | 11800.
12800.
16300.
20400. |
| NOI | DES IGN
FORECAST | 25800.
27900.
33500.
36000.
41000. | | DESIGN
FORECAST | 5500.
6400.
10900.
13600.
19100.
26800. | | DESIGN
PORECAST | 5900.
10100.
15200.
18500.
23300.
30100. | | DESIGN
PESIGN
FORECAST | 15400.
18800.
24800.
27600.
31200. |
| PCPULAT10 | LOW | 33100.
35300.
39000. | | LOW LOW | 10500.
13000.
17400.
22900. | | POPULATION
DESIG
LOW FORECAS | 14700.
17800.
21600.
25600. | | POPULATION
DESIGN
LOW FORECAST | 24200.
26700.
29500.
28700. |
| GL JUCESTER | нІвн | 33900.
36700.
43000.
51500. | HAMILTON | HIGH | 11200.
14200.
20700.
30600. | HANDVER | HIGH | 15700.
19300.
25100.
34700. | HINGHAM | TOTAL | 25400.
28500.
33000. |
| 33 | | 1960
1970
1990
2000
2020
2050 | 34 | | 1960
1870
1990
2000
2020
2050 | 35 | | 1960
1970
1990
2000
2020
2050 | 36 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| EMPLOYMENT
DESIGN
LOW FORECAST | 800.
1700.
4500.
5600.
7900. | YMENT | PORECAST | 500.
1100.
2900.
4700.
9600. | | EMPLOYMENT DESIGN LOW FORECAST | 400.
700.
5500.
8400.
15600.
27700. | EMPLOYMENT
DESIGN
LOW FORECAST | 1200.
2000.
3500.
5600. |
|---|--|--------------------------|--------------------|---|-----------|---|--|---|---|
| EMPL | 4100.
5400.
7300.
15000. | OTHER EMPLOYMENT | 101 | 2700.
4700.
8900.
15400. | | EMPLO | 5500.
9000.
15300.
25800. | | 3300.
3900.
5300.
7100. |
| HIGH | 4900.
5800.
8500.
18000. | 0TH | н16н | 3200.
4700.
10300.
19300. | | HIGH | 5500.
7900.
15900.
29500. | HIGH | 3700.
4000.
5900.
8700. |
| 4PLOYMENT
DESIGN
FORFCAST | 500.
400.
700.
700.
800. | LOYMENT | DESIGN
FORECAST | 400.
500.
700.
600.
100. | | PLOYMENT
DESIGN
FOPECAST | 100.
800.
800.
900. | PLOYMENT
DESIGN
FORECAST | 1400.
2000.
1700.
1400.
1100. |
| JRING EMP | 600.
600.
700. | MANUFACTURING EMPLOYMENT | LOW | 700.
500.
300. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOPECAST | 600.
600.
700. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1700.
1300.
1000.
500. |
| MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 900.
900.
700. | MANUFACT | нтен | 800.
600.
600.
1100. | | MANUFACTU | 1000.
1000.
1100.
1100. | MANUFACTU | 1500.
1500.
1200.
1300. |
| MENT
DESIGN
FORECAST | 1300.
2100.
5200.
6300.
8700. | NT | DESIGN
FORECAST | 1000.
1700.
3700.
5200.
10200. | | MENT
DESIGN
FORECAST | 400.
800.
6300.
9200.
16500.
28700. | MENT
PESIGN
FOFECAST | 2500.
4000.
5200.
5400.
6700. |
| EMPLOYMENT | 4700.
6100.
7900.
15500. | EMPLOYMENT | LOW FO | 3300.
5200.
9400.
15800. | | EMPLOYMENT DESIG | 6100.
9600.
16000.
26700. | EMPLOYMENT | 5000.
5200.
6300.
7600. |
| T0TAL | 5700.
6600.
9400.
18700. | T0TAL | нІбн | 4000.
5300.
11000.
2050c. | | TOTAL
HIGH | 6500.
8900.
17000.
30700. | TCTAL | 5500.
5600.
7100.
9900. |
| DESIGN
RECAST | 10100.
11800.
13700.
14700.
15600. | NO | DESIGN
RECAST | 6200.
12100.
17200.
20200.
25700. | | DESIGN
RECAST | 4°00.
6000.
10400.
15100.
24400.
40600. | ON
DESIGN
RECAST | 9700.
16100.
23600.
26500.
30300. |
| -TOTAL PCPULATION
GH LOW FORECAST | 13400.
14300.
14800.
18900. | POPULATION | LOW FOR | 16700.
19400.
23700.
28000. | | POPULATION
DESIGN
LOW FORECAST | 10000.
14200.
21700.
32600. | POPULATION
DESIGN
LOW FORECAST | 23000.
25600.
28500.
27500. |
| T0TAL | 14000-
15200-
16400-
32100- | HOLLISTON | нІвн | 17600.
21000.
27500.
38100. | HOPKINTON | T0TAL | 10800.
15900.
27100.
48500. | HUDSON
TOTAL
HIGH | 24200•
27400•
32100•
35200• |
| | 1960
1970
2000
2020
2050 | 38 | | 1960
1970
1990
2000
2020
2050 | 39 | | 1960
1970
2000
2020
2050 | 0, | 1940
1970
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION MASTEWATER STUDY 10 PCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT
DESIGN
LOW FORECAST | 1100.
1300.
1600.
1700.
2000. | EMPLOYMENT
DESIGN
LOW FORECAST | 2900.
4000.
5600.
6400.
12000. | | DESIGN
FORECAST | 3500.
5300.
8200.
9700.
12700.
14500. | EMPLOYMENT
DESIGN
LOW FORECAST | 400.
600.
1000.
2100.
4300.
5100. |
|------|---|---|---|---|-----------|---|--|---|--|
| | | 1500•
1700•
2000•
2900• | | 5300.
6200.
7700.
10800. | | OTHER EMPLOYMENT DESIGN HIGH LOW FORECAST | 7700.
9500.
12000.
14000. | EMPLI | 1900.
1900.
4000. |
| | OTHER
HIGH | 1700.
1700.
2100.
3000. | 0THER
HIGH | 5900.
6500.
8800.
13200. | | н16н | 8600.
9800.
13300.
15000. | HIGH | 1100.
2300.
4600.
5500. |
| | PLOYMENT
DESIGN
FORECAST | 1000. | PLDYMENT
DESIGN
FORECAST | 900.
700.
1700.
1900. | | 1PLDYMENT
DESIGN
FORECAST | 200.
1300.
1900.
1000.
300. | APLOYMENT
DESIGN
FOPECAST | ••••• |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1300.
1400.
1600.
1500. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1600.
1700.
900.
200. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOPECAST | 0000 |
| | MANUFACT | 100. | MANUFACT | 2000.
2000.
2300.
2100. | | MANUFACT
HIGH | 2100.
2100.
1200.
400. | MANUFACT | 0000 |
| | MENT
DESIGN
FORECAST | 1100.
1300.
1700.
2000.
3200. | MENT
DESIGN
FORECAST | 3800.
4700.
7300.
8100.
10200.
13800. | | MENT
DESIGN
FORECAST | 3800.
6600.
10000.
11600.
13700. | MENT
DE SIGN
FORECAST | 400.
600.
2100.
4300.
5100. |
| | EMPLOYMENT DESI
LOW FORECA | 1600.
1700.
2000.
3100. | EMPLOYMENT
DESIG
LOW FORECAS | 6600.
7600.
9300.
12300. | | EMPLOYMENT DESI LOW FORECA | 9300.
11200.
12900.
14200. | EMPLOYMENT
DESIGN
LOW FORECAST | 1900.
1900.
4000.
4700. |
| | HIGH | 1800.
1700.
2100.
3200. | T0TAL | 8000.
8500.
11000.
15300. | | HIGH | 10700.
11900.
14600.
15400. | HIGH | 1100.
2300.
4600.
5500. |
| | DESIGN
DRECAST | 7100.
9900.
8200.
8000.
7400. | ION
DESIGN
ORECAST | 8500.
10800.
15600.
18100.
22600.
29700. | | JON
DESIGN
ORECAST | 27700.
31900.
38900.
43500.
51800. | 10N
DESIGN
DRECAST | 5600.
7600.
11400.
14000.
18600.
30500. |
| | POPULATION
DESI
LOW FORECA | 8200.
7900.
7200.
7700. | POPULATI | 15200.
17400.
21000.
25300. | | POPULATI | 38400.
42300.
48300.
49900. | POPULATI | 11300.
13500.
16700.
24000. |
| אחרר | T0TAL | 8300.
8000.
7500.
8900. | IPSWICH
TOTAL
HIGH | 16000•
18700•
24200•
34100• | LEXINGTON | T0TAL | 39400•
44800•
55400•
61200• | LINCOLNTOTAL HIGH | 11600•
14600•
20400•
37000• |
| 41 | | 1960
1970
2000
2020
2050 | 42 | 1960
1970
2000
2020
2020 | 43 | | 1960
1970
2000
2020
2050 | 1 | 1960
1970
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION MASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | | | | | | | 200 100 2 | | |
|-----------|---|--|---|---|-----------|---|---|--------------------------|--|
| | EMPLOYMENT DESIGN LOW FORECAST | 400.
600.
1700.
2600.
7400. | EMPLOYMENT
DESIGN
LOW FORECAST | 19500.
22000.
18000.
16500.
13500. | | EMPLOYMENT DESIGN LOW FORECAST | 1000.
1600.
4100.
6000.
9400.
11900. | EMPLOYMENT | 9900.
13400.
12000.
11200.
10000.
8400. |
| | | 1600.
2500.
6700.
11800. | | 17600.
16200.
13500.
11100. | | EMPLO | 3800.
6000.
9000.
11200. | EMPLC | 12000-
11200-
10000-
8400- |
| | OTHER
HIGH | 1900.
2600.
8100.
15500. | ОТНЕЯ | 16800.
15800.
13500. | | OTHER
H1GH | 4400.
5900.
9900.
12700. | OTHER | 12000.
11200.
100000.
8300. |
| | PLOYMENT
DESIGN
FORECAST | 900.
800.
1100.
1200. | PLOYMENT
DESIGN
FORECAST | 22500.
21700.
18100.
16000.
12200.
7500. | | PLOYMENT
DESIGN
FORECAST | 500°
500°
500° | PLOYMENT | FORECAST
4900.
4600.
3100.
2700.
1200. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 900.
1000.
900. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 17100.
15100.
11300.
6800. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 4 4 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | MANUFACTURING EMPLOYMENT | 2900.
2500.
2500.
2000. |
| | MANUFACT | 1200.
1200.
1300.
1100. | MANUFACT | 19000.
16900.
13000.
8100. | | MANUFACT | 0000 | MANUFACT | 3300.
3000.
2500.
1900. |
| | MENT
DESIGN
FORECAST | 1400.
1400.
2800.
3600.
8600.
14700. | MENT
DESIGN
FORECAST | 42000.
43800.
36100.
32500.
25700. | | MENT
DESIGN
FORECAST | 1700.
1700.
4600.
6500.
9900.
12400. | NT
DESIGN | 14800.
18000.
18000.
15100.
13900.
12200. |
| | EMPLOYMENT DESI LOW FORECA | 2500.
3500.
7700. | EMPLOYMENT
DESIGN
LOW FORECAST | 34700.
31300.
24800.
17900. | | EMPLOYMENT
DESIGN
LOW FORECAST | 4100.
6400.
9400.
11600. | EMPLOYMENT | LOW FG
14900.
13700.
12000. |
| | TOTAL | 3100.
3800.
9400.
16600. | T0T AL | 37500.
33700.
26500.
19800. | | HIGH | 5000.
6500.
10500.
13300. | T0TAL | HIGH
15300•
14200•
12500• |
| | DESIGN
DECAST | 5100.
6400.
11100.
14000.
20300.
32100. | ION
DESIGN
DRECAST | 94500.
90300.
86100.
83700.
80600. | | DESIGN
PORECAST | 8400.
10800.
14700.
16700.
20300.
23100. | ION | 57700-
56100-
52900-
51000-
48100-
39300- |
| | POPULATION
DESIGN
LOW FORECAST | 10700.
13400.
18400.
26200. | POPULATION
DE
LOW FORI | 85600.
82800.
78900.
70500. | | POPULATION D | 14300.
16100.
19000.
20300. | POPULATION | LOW FC
52500-
50300-
47000-
31800- |
| LITTLETCN | T0TAL | 11500.
14600.
22200.
38000. | LVNNTOTAL POPULATION DESIGN HIGH LOW FORECAST | 96500.
84600.
82300.
77300. | LYNNFIELD | HIGH | 15000.
17300.
21600.
25800. | MALDENTOTAL | 53300.
51700.
49200.
46900. |
| 45 | | 1960
1970
1990
2000
2020
2050 | 4 | 1960
1970
1990
2000
2020
2050 | 1.4 | | 1960
1970
1990
2000
2020
2050 | 84 | 1960
1970
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

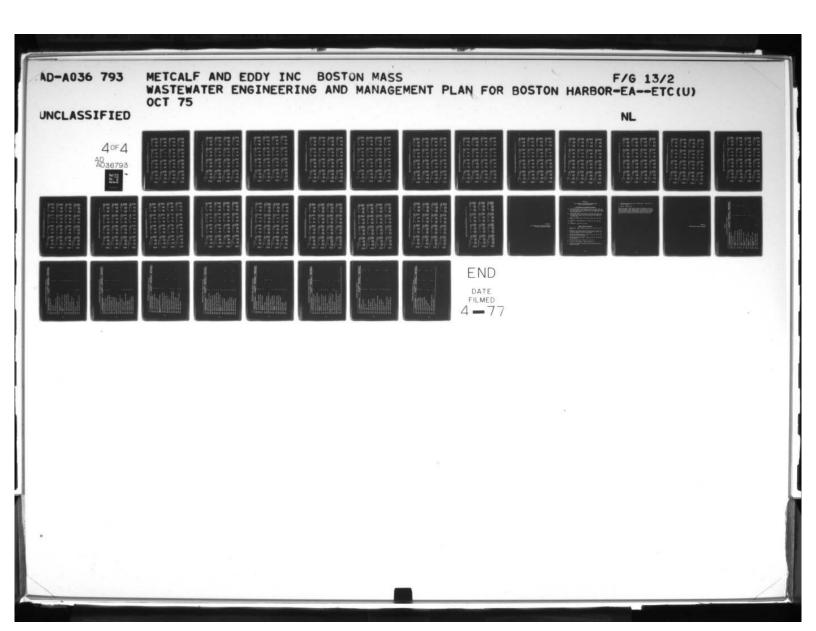
| | EMPLOYMENT
DESIGN
LOW FORECAST | 400.
100.
2200.
4300.
4500. | YMENT
DESIGN
FORECAST | 1600.
2500.
2500.
2500.
1900.
2700. | | VMENT
DESIGN
FORECAST | 1800.
4300.
7600.
9300.
14500. | YMENT
DESIGN
FORECAST | 800.
1500.
2300.
3100.
5900. |
|------------|---|---|---|--|-------------|---|--|---|---|
| | EMPLO | 1500.
2400.
4200.
4400. | R EMPLO | 2500.
2600.
2200.
2900. | | R EMPLO | 7100.
9200.
13600.
17700. | R EMPLO | 2100.
3100.
5500. |
| | HIGH | 1500.
2100.
4400.
4600. | OTHER EMPLOYMENT
DESIGN
HIGH LOW FORECAS! | 2600.
2400.
1700.
2500. | | OTHER EMPLOYMENT DESIGN HIGH LOW FORECAST | 8000.
9400.
15500.
22100. | CTHER EMPLOYMENT DESIGN HIGH LOW FORECAS | 2400.
3100.
6400.
11400. |
| 1 | DESIGN
FORECAST | 2000
2000
2000
2000
2000 | APLOYMENT
Design
Forecast | 300.
800.
700.
600.
400. | | APLOYMENT
DESIGN
FORECAST | 2300.
3000.
3700.
3700.
3900. | 4PLOYMENT
DESIGN
FORECAST | 100.
300.
200.
900. |
| | RING EM | 2000 | RING EM | 700.
500.
300. | | RING EM | 3300.
3400.
3600.
2600. | RING EM | 300. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 400
400
200
200 | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 700.
600.
500. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 4100.
4000.
4300.
3800. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 400.
400.
600. |
| | MENT
DESIGN
FORECAST | 500.
700.
1900.
2600.
4700. | MENT
DESIGN
FORECAST | 1900.
3300.
3200.
3100.
2300.
3100. | | MENT
DESIGN
FORECAST | 4200.
7300.
11200.
13000.
18400.
23100. | MENT
DESIGN
FORECAST | 800.
1600.
2600.
3300.
6300. |
| | EMPLOYMENT
DESIGN
LOW FORECAST | 1900.
2800.
4600.
4600. | EMPLOYMENT
DESIGN
LOW FORECAST | 3100.
3200.
2500.
3200. | | EMPLOYMENT
DESI
LOW FORECA | 10400.
12500.
17100.
20300. | EMPLOYMENT
DESIGN
LOW FORECAST | 2400.
3300.
5800.
9200. |
| | T0TAL | 1900.
2500.
4800.
4800. | TOTAL | 3400.
3000.
2200.
3100. | | TOTAL | 12100.
13400.
19700.
25900. | TOTAL | 2800.
3400.
6800.
11900. |
| | DESIGN
DESIGN
DRECAST | 3900.
5200.
9700.
11900.
16700. | ON
DESIGN
DECAST | 18500.
21300.
20700.
20800.
19900.
19000. | | DESIGN
DECAST | 18800.
27900.
35300.
38700.
43600.
47000. | DESIGN
DRECAST | 6700.
15200.
30500.
34900.
41100. |
| | POPULATION
DESI
LOW FORECA | 9500.
11400.
15300.
16700. | POPULATION FO | 20300.
20300.
19700.
17700. | | POPULATI | 34500.
37600.
41100.
40600. | POPULATI | 29600.
33600.
38400.
39300. |
| MANCHESTER | HIGH | 10000.
12300.
18200.
18000. | MARBLEHEADTOTAL POPULATI 416H LOW FO | 21200.
21300.
20200.
20300. | MARLBOROUGH | TOTAL | 36100.
39900.
46100.
53500. | MARSHFIELD
TOTAL
HIGH | 31500.
36300.
43800.
51800. |
| 64 | | 1960
1970
2000
2020
2050 | 90 | 1960
1970
2000
2020
2050 | 51 | | 1960
1970
1990
2000
2020
2050 | 25 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT DESIGN LOW FORECAST | 1400.
1800.
2700.
3500.
5600. | EMPLOYMENT
DESIGN
LOW FORECAST | 400.
800.
3400.
4800.
8700. | | EMPLOYMENT DESIGN LOW FORECAST | 8900.
11200.
10200.
9400.
8000.
7800. | | FMPLOYMENT DESIGN LOW FORECAST | 400.
900.
3100.
4900.
9000. |
|---------|---|--|---|--|---------|---|--|--------|---|--|
| | FMPL | 2500.
3400.
5300.
8500. | EMPLO | 3300.
5000.
8400.
12400. | | IER EMPLC | 99000
92000
80000 | | FMPL | 2800.
4800.
8500. |
| | ОТНЕР
НІСН | 2900.
3700.
5800.
10300. | HIGH | 3500.
4700.
9100.
14300. | | HIGH | 10500.
9600.
8000.
7700. | | HIGH | 3400.
5100.
9400.
15800. |
| | APLOYMENT
DESIGN
FORECAST | 1700.
4300.
2300.
2300.
2300.
2200. | 4PLOYMENT
DESIGN
FORECAST | 100.
200.
1100.
1200. | | PLOYMENT
DESIGN
FORECAST | 2400.
2400.
2300.
2100.
1800. | | PLOYMENT
CESIGN
FORECAST | 300.
200.
300.
700. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 1600.
1600.
1700.
1500. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2300.
2100.
1800.
600. | | MANUFACTURING EMPLOYMENT
CESIGN
HIGH LOW FORECAST | 300°
400°
800° |
| | MANUFACT | 3000.
3000.
2800. | MANUFACT | 1400.
1400.
1500.
1400. | | MANUFACT | 2400.
2200.
1800.
900. | | MANUFACT | 400.
400.
700. |
| | DESIGN
FORECAST | 3100.
6100.
5000.
5800.
7900. | MENT
DESIGN
FORECAST | 600.
1100.
4500.
5900.
14500. | | DESIGN
PORECAST | 11200.
13600.
12500.
11500.
9800.
8600. | | MENT
DESIGN
FORECAST | 700.
1000.
3400.
5300.
9600.
15200. |
| | EMPLOYMENT DESI | 4100.
5000.
7000. | EMPLOYMENT
DESIG
LOW FORECAS | 4100.
5800.
9300.
13300. | | EMPLOYMENT | 12200.
11200.
9800.
8600. | | EMPLOYMENT DESI LOW FORECA | 3100.
5100.
8900.
13900. |
| | HIGH | 5800.
6600.
8800. | T0TAL | 4900.
6100.
10600.
15700. | | HIGH | 12800.
11700.
9800.
8500. | | TOTAL | 3800.
5500.
10200.
16500. |
| | DESIGN
DRECAST | 7700.
9700.
11400.
12000.
12900. | ION
DESIGN
DRECAST | 6000.
9800.
16200.
19600.
25100. | | DES IGN | 65000.
64400.
67700.
67300.
65300.
59600. | | DESIGN
DRECAST | 5200.
7800.
10800.
12800.
16400.
22300. |
| | POPULATI | 11100.
115200.
10100. | PCPULATI | 15700.
18800.
23200.
27300. | | POPULAT I | 66700.
66100.
63900.
54500. | | POPULATI | 10500.
12300.
15100.
18800. |
| MAYNARD | T0TAL | 11600.
12300.
13600.
13500. | WEDFIELD
TOTAL
HIGH | 16700.
20400.
27000.
36700. | MEDFORD | HIGH | 68700.
08500.
66600.
64700. | MEDWAY | HIGH | 11100.
13200.
17700.
25700. |
| 53 | | 1960
1970
1990
2000
2020
2050 | 20 | 1960
1970
1990
2000
2020
2050 | 55 | | 1960
1970
1990
2000
2020
2050 | 56 | | 1940
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION MASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| EMPLOYMENT
DESIGN
LOW FORECAST | 2900.
4200.
3400.
3400.
4000. | EMPLOVMENT
DESIGN
LOW FORECAST | 600.
1000.
1200.
1900.
4100.
9700. | | EMPLOYMENT
DESIGN
LOW FORECAST | 2500.
3000.
2800.
4900.
9600.
13300. | | EMPLOYMENT
DESIGN
LOW FORECAST | 300.
400.
2400.
3900.
8000. |
|---|--|---|---|---------|---|--|--------|---|--|
| HOT | 3200.
3300.
3100.
4200. | EMPL | 1100.
2000.
3800.
8600. | | EMPLO | 2700.
5100.
9300.
12000. | | EMPLO | 2400.
4000.
7800.
11800. |
| 0THER | 3700.
3600.
3400.
3800. | OTHER
HIGH | 1300.
1900.
4400.
10700. | | 0THER | 2900.
4600.
9900.
14600. | | HIGH | 2400.
3900.
8100.
13700. |
| PLOYMENT
DESIGN
FORECAST | 2900.
1700.
1100.
700.
200. | MPLOYMENT
DESIGN
FORECAST | 200.
600.
900.
900.
1000. | | PLOYMENT
DESIGN
FORECAST | 2100.
1500.
1600.
1600.
1700. | | PLOYMENT
DESIGN
FORECAST | 700.
500.
500. |
| MANUFACTUPING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 700.
700.
700.
900. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1400.
1500.
1600. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 5000
5000
3000 |
| MANUFACT | 1100.
700.
200.
100. | MANUFACT | 1100.
1000.
1100. | | MANUFACT | 1700.
1700.
1800. | | MANUFACT | 6000
6000
6000 |
| MENT
DESIGN
FORECAST | 5900.
5800.
4500.
4100.
3500. | MENT
DESIGN
FORECAST | 800.
1500.
2100.
2800.
5000. | | DESIGN
PORECAST | 4600.
4500.
4300.
6500.
11300.
15000. | | DESIGN
FORECAST | 1000.
1000.
2900.
4500.
13200. |
| EMPLOY | 4300.
3900.
3300.
4200. | EMPLOYMENT
DESI
LOW FORECA | 1900.
2700.
4500.
9500. | | EMPLO | 4100.
6600.
10900.
13400. | | EMPLO | 2900.
4500.
8300.
12100. |
| T0TAL | 4800.
4200.
3600. | T0TAL | 2400.
2900.
5400.
11800. | | TOTAL | 4600.
6300.
11700.
16500. | | T0TAL | 3000.
4500.
8700.
14300. |
| ION
DESIGN
DRECAST | 29600.
33200.
37300.
38100.
39000. | DESIGN
DRECAST | 3700.
4000.
5700.
6900.
9100. | | DESIGN
DRECAST | 15700.
19400.
21800.
23200.
26100.
28600. | | DESIGN
DRECAST | 4400.
5800.
10700.
14000.
19300.
27300. |
| POPULATION
DESIGN
LOW FORECAST | 36700•
38200•
37800•
32500• | POPULATIO
D
LOW FOR | 5600.
6600.
8400.
11900. | | POPULATION
DESIG
LOW FORECAS | 21400.
22600.
24800.
24800. | | TOTAL POPULATIO
D
HIGH LOW FOR | 10300•
13300•
17500•
22500• |
| MELROSE
TOTAL
HIGH | 37900.
38000.
40200.
42600. | MIJOLETCN
TOTAL
HIGH | 5900.
7100.
9900.
16800. | MILFORD | ТОТАL
НІGН | 22200.
23800.
27500.
32400. | MILLIS | TOTAL | 11100•
14600•
21100•
32100• |
| 57 | 1960
1970
1990
2000
2020
2050 | 58 | 1960
1970
1990
2000
2020
2020 | 59 | | 1960
1970
1990
2000
2020
2050 | 9 | | 1960
1970
1990
2000
2020
2050 |



METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECESTS (1960 - 2050)

| EMPLCYMENT
DESIGN
LOW FORECAST | 1000.
1600.
1300.
1100.
2100. | EMPLOYMENT
DESIGN
LOW FORECAST | 1200.
1800.
4000.
4400.
5000.
6700. | EMPLOYMENT
DESIGN
LOW FORECAST | 300.
400.
200.
300.
1800. | EMPLOYMENT
DESIGN
LOW FORECAST | 6000.
14100.
21300.
22700.
24800.
27700. |
|---|--|---|--|---|--|---|--|
| EMPLC | 1200.
1200.
1400. | EMPL | 3800.
4200.
4600.
5700. | EMPLICOM | 200.
300.
900.
1600. | | 20200.
22200.
23700.
26100. |
| HIGH | 1400.
1100.
1300.
2400. | ОТНЕВ | 4300.
4700.
5500.
7700. | HIGH | 200.
300.
500. | ОТНЕВ | 22300.
23200.
25900.
29400. |
| PLOYMENT
DESIGN
FORFCAST | 1000
1000
4000
3000 | PLOYMENT
DESIGN
FCRECAST | 2000 | 1PLOYMENT
DESIGN
FORECAST | 9 6000
0000
0000
0000 | APLOYMENT
DESIGN
FORECAST | 1700.
3600.
3800.
3400.
2800. |
| JRING EM | 100.
300.
200. | JR ING EW | 0000 | JRING EN | 400.
300. | JP ING EN | 3400.
3200.
3000.
2500. |
| MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORFCAST | 100.
400.
400. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FCRECAST | •••• | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 000
000
000
000 | MANUFACTUPING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 4200.
4000.
3700. |
| MENT
DESIGN
FORECAST | 1200.
1700.
1400.
1500.
2400. | EMPLOYMENT
DESIGN
LOW FORECAST | 1300.
2000.
4000.
4400.
5000.
6700. | EMPLOYMENT
DESIGN
LOW FORECAST | 300.
400.
700.
800.
1100. | EMPLOYMENT
DESIGN
LOW FORECAST | 7700.
17800.
25000.
26300.
28200.
30600. |
| EMPLOYMENT
DESIG
LOW FORECAS | 1300.
1500.
1600.
2000. | EMPLOYM
LOW F | 3800.
4200.
4600.
5700. | EMPLOYM | 600.
700.
1300.
1900. | EMPLOYM
LOW F | 23600.
25400.
26700.
28600. |
| T074L | 1500.
1500.
1700.
2700. | HIGH | 4300.
4700.
5500.
7700. | T0TAL | 700.
800.
900.
2400. | T0TAL | 26400.
27100.
29600.
32600. |
| TION
DESIGN
FORECAST | 5200.
5200.
5300.
5100.
5100. | ATION
DESIGN
FORECAST | 21200.
22000.
28700.
31200.
37700. | DESIGN
FORECAST | 4100.
4300.
3800.
3700. | AT JON
DES JGN
FORECAST | 28800.
31000.
39600.
41600.
46300.
44400. |
| PCPULATION
DE
LOW FORE | 5300.
5700.
5500. | POPULATION
DESIGN
LOW FORECAST | 28300.
28700.
30100.
30500. | POPULATION
D
LCW FOR | 4300.
3700.
3700.
4100. | POPULATION
DESIGN
LOW FORECAST | 38700.
40500.
44000.
37900. |
| MILTON (D) | 5300.
4500.
4700.
5500. | MILTON (N) | 29000•
33700•
45200•
47200• | NAHANTTOTAL HIGH | 4300.
3900.
3700.
5400. | 441CKTOTAL 41GH | 40500•
42800•
48500•
50900• |
| 7 | 1960
1970
1990
2000
2020
2050 | 62 | 1960
1970
1990
2000
2020
2050 | 5 | 1960
1970
1990
2000
2020
2050 | 4 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT DESIGN LOW FORECAST | 5800.
10000.
11100.
11500.
13400. | EMPLOYMENT
DESIGN
LOW FORECAST | 6100.
9800.
10000.
9900.
9300. | | EMPLOYMENT DESIGN LOW FORECAST | 10100.
16400.
18800.
18500.
16100. | EMPLOYMENT
DESIGN
LOW FORECAST | 300.
500.
700.
1300.
2900.
6600. |
|----|---|--|---|---|------------|---|--|---|---|
| | EMPL | 11500.
11500.
12400.
13300. | | 9700.
9600.
8600. | | | 18000.
18200.
15200.
15600. | | 700.
1400.
2600.
5800. |
| | OTHER | 11300.
11500.
13300. | 0THER | 10300.
10100.
9900.
10500. | | HIGH | 19500.
18700.
17000.
17100. | OTHER
H1GH | 800.
1300.
3100.
7400. |
| | PLOYMENT
DESIGN
FORECAST | 4200.
3300.
2100.
1900.
1500. | PLOYMENT
DESIGN
FORECAST | 5100.
1800.
1100.
600.
100.
200. | | APLOYMENT
DESIGN
FORECAST | 5500.
2000.
1500.
1000.
300. | PLOYMENT
DESIGN
FORECAST | 100.
200.
200.
200.
100. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 1600.
1500.
1300.
500. | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 900.
500.
200. | | MANUFACTURING FMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1400.
900.
300.
100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 200. |
| | MANUFACT | 2500.
2200.
1700.
600. | MANUFACT | 1200.
700.
100.
200. | | MANUFACT | 1700.
1100.
300.
100. | MANUFACT | 2000. |
| | DESIGN
FORECAST | 13300.
13200.
13400.
14300.
13900. | MENT
DESIGN
FORECAST | 11200.
11600.
11100.
10400.
9400. | | DESIGN
PORECAST | 15600.
18400.
20300.
19500.
16400. | MENT
DESIGN
FORECAST | 400.
1000.
1600.
3100.
6700. |
| | EMPLOYMENT DESIGN LOW FORECAST | 12600.
13000.
13700. | EMPLOYMENT
DESIGN
LOW FORECAST | 10700.
10100.
8700.
9800. | | EMPLOYMENT
DESIG
LOW FORECAS | 19400.
19100.
15600. | EMPLOYMENT
DESIG | 900.
1600.
2800.
5800. |
| | HIGH | 13800.
13800.
15000.
14100. | HIGH | 11500.
10800.
10000. | | HIGH | 21200.
19900.
17300.
17200. | T0TAL | 1000.
1500.
3300.
7600. |
| | DESIGN
DRECAST | 25800.
29700.
38900.
44100.
53200. | ION
DESIGN
ORECAST | 40400.
41100.
48800.
48900.
50200. | | DESIGN
ORECAST | 52000.
50000.
51400.
57000.
60900. | 10N
DESIGN
ORECAST | 3500.
4700.
8600.
11000.
15300.
23900. |
| | POPULATI
LOW FO | 38300.
42900.
49900.
57400. | POPULATI
LOW FO | 48000.
47200.
48000.
45900. | | POPULATI
LOW FO | 50800.
55900.
57400.
57500. | PCPULATI
LOW FO | 8300.
10500.
13900.
19500. |
| | HIGH | 39500.
45300.
56600.
62200. | NEWTON (D) | 49700.
50500.
52400.
53400. | NEWTON (N) | HIGH | 52000.
58000.
54400.
67200. | NO3FOLK
TOTAL
HIGH | 8800.
11500.
16700.
28200. |
| 59 | | 1960
1970
1990
2000
2020
2050 | 8 | 1960
1970
1990
2000
2020
2050 | 15 | | 1960
1970
1990
2000
2020
2050 | | 1960
1970
1990
2000
2020
2050 |

METPOPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | DESIGN
PORECAST | 800.
1500.
4000.
5800.
10000. | 196000 | PESTGN
PESTGN
FORECAST | 700.
1200.
3600.
5200.
9700. | | OTHER EMPLOYMENT DESIGN IGH LOW FORECAST | 400.
1100.
1300.
2300.
4700. | EMPLOYMENT DESIGN LOW FORECAST | 4900.
7700.
8000.
8200.
8300. |
|---------------|----------------------------------|---|--------------|---|--|---------|---|--|---|--|
| | LOW I | 3600.
5500.
9800. | | R EMPLO | 3500.
5400.
5400.
13600. | 10 m | R EMPLO | 1200.
2400.
4500.
12000. | EMPLO | 7600.
8000.
7900.
9800. |
| | DESIGN | 4300.
6000.
10200.
16900. | | OTHER EMPLOYMENT DESIGN HIGH LOW FORECAST | 3700.
4900.
10100.
16200. | | нтен | 1300.
2200.
5000.
15500. | HIGH | 8300.
8500.
8800.
11200. |
| | PLOYMENT
DESIGN
FORECAST | 1000.
1000.
7000.
8000. | | PLOYMENT
DESIGN
FORECAST | 300.
500.
1500.
1700.
1700. | | PLOYMENT
DESIGN
FORECAST | 0.
100.
300.
400.
1600. | 4PLDYMENT
DESIGN
FORECAST | 4800.
5200.
4200.
4100.
3900.
2400. |
| | PING EMI | 500.
500.
700. | | RING EM | 1200.
1200.
1400.
1400. | | RING EM | 100.
400.
800. | RING EM | 3600.
3600.
3500.
2000. |
| | MANUFACTUPING EMPLOYMENT DESIGN | 8000.
9000.
10000. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1800.
1800.
2000.
2000. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 100.
300.
400.
2400. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 4900.
4700.
4200.
2700. |
| | DESIGN
FORECAST | 800.
1600.
4600.
6400.
10800. | | DESIGN
FORECAST | 1000.
1700.
5000.
6700.
11400.
16600. | | MENT
DESIGN
FORECAST | 500.
1100.
1400.
2600.
5200.
15300. | MENT
DESIGN
FORECAST | 9700.
12900.
12200.
12400.
12200. |
| | EMPLOYMENT | 4100.
6000.
10400.
15200. | | EMPLOYMENT
DESIGN
LOW FORECAST | 4600.
6600.
10800.
15000. | | EMPLOYMENT
DESIGN
LOW FORECAST | 1300-
2700-
4900-
12800- | EMPLOYMENT
DESIGN
LOW FORECAST | 11200.
11600.
11400.
11900. |
| | HIGH | 5100.
6800.
11100.
17800. | | T0TAL | 5400.
6700.
12100.
18200. | | T0TAL | 1500.
2500.
5400.
17900. | HIGH | 13200.
13100.
13000.
14000. |
| | JON
DESIGN
DRECAST | 8300.
11300.
15100.
17500.
21000.
26003. | | JON
DESIGN
ORECAST | 6700.
9200.
14600.
18600.
26300.
38900. | | DESIGN
ORECAST | 5200.
7800.
11300.
13400.
17800.
28300. | TION
DESIGN
FORECAST | 24900.
30900.
36000.
38100.
39100. |
| Se Se | POPULATION
DESI
LOW FORECA | 14600.
16800.
19500.
22300. | I | PCPULATION FO | 14100.
17800.
23900.
31800. | | POPULATI | 11000.
12900.
16300.
22500. | POPULATION FO | 35300.
37100.
37300. |
| NORTH READING | T07AL | 15500.
18100.
22500.
29700. | NOSTHBORDUGH | T0TAL | 15100-
19500-
28800-
46100- | NORMELL | HIGH | 11600.
13900.
19200.
34000. | NJ3WJOD
TDTAL
HIGH | 36700-
39100-
40903-
37530- |
| 69 | | 1960
1970
2000
2020
2050 | 70 | | 1960
1970
1990
2000
2020
2050 | n | | 1940
1970
1990
2000
2020
2050 | 72 | 1940
1970
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | DESIGN
FORECAST | 5800.
8500.
18900.
19100.
19600. | EMPLOYMENT
DESIGN
LOW FORECAST | 500.
2000.
2800.
4900.
13900. | | VMENT
DESIGN
FORECAST | 19600.
26600.
26900.
26900.
24300.
22000. | EMPLOYMENT | 1500.
2900.
6300.
5800.
6200. |
|---------|---|--|---|---|--------|---|--|--|--|
| | HON | 17800.
18400.
16800.
17500. | EMPLO | 1800.
2800.
4500.
12100. | | OTHER EMPLOYMENT
DESIG
IIGH LOW FORECAS | 25700.
24900.
23100.
20300. | EMPLO | |
| | HIGH | 20000.
19900.
19500.
21700. | OTHER | 2200.
2900.
5300.
15700. | | н16н | 28000.
27000.
25500.
23800. | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 6700.
6500.
6200.
6800. |
| | PLOYMENT
DESIGN
FORECAST | 4400.
5400.
5000.
4000.
2600. | 4PLOYMENT
DESIGN
FOFECAST | 100.
100.
100.
400.
400. | | PLOYMENT
DESIGN
FORECAST | 15500.
14100.
10500.
7000.
2800. | PLOYMENT
DESIGN | 1300.
2400.
2700.
2600.
1900. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 4400.
3700.
2200.
700. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOFECAST | 100.
400.
1200. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 10500.
8900.
6900.
2500. | MANUFACTURING EMPLOYMENT
DESIGN | |
| | MANUFACT | 5500.
4400.
3000. | MANUFACT | 200•
400•
500•
2300• | | MANUFACT
H1GH | 10500.
\$100.
7100. | MANUFACT | 3000
83000
18000 |
| | DESIGN
FORECAST | 13900.
23900.
23200.
20700.
21000. | MENT
DESIGN
FORECAST | 700.
1000.
2100.
3200.
5300.
15600. | | MENT
DESIGN
FORECAST | 35100.
40700.
37400.
34900.
31300.
24800. | MENT
DESIGN | 2900.
5200.
9000.
7700. |
| | EMPLCYMENT | 22300.
22000.
19000. | EMPLOYMENT
DESI
LOW FORECA | 2000-
3200-
4900-
13300- | | EMPLOYMENT DESIG | 36200.
33800.
30000.
22700. | EMPLOYMENT | 0000 |
| | TOT AL | 25560.
24300.
22400.
23800. | T0TAL | 2300.
3300.
5700. | | HIGH | 38600.
36100.
32500.
26800. | TOTAL | 9700.
9500.
8500. |
| | DESIGN
PORECAST | 32200.
43100.
56100.
57400.
56200. | TION
DESIGN
FORECAST | 4900.
11200.
13400.
14900.
17400.
23500. | | DESIGN
FORECAST | 87400.
88000.
96200.
102900.
111400. | ATTON
DESIGN | 18900-
27000-
31800-
32400-
31300-
28900- |
| | POPULATIO | 55000-
55900-
54400-
47700- | PCPULATION
DESIG
LOW FORECAS | 13100.
14400.
16300.
19200. | | POPULAT | 90300.
90200.
90900.
82100. | POPULAT | 0000 |
| PEABODY | HISH | 57200-
58900-
58000-
53600- | PE4BROKE
TOTAL
HIGH | 13703-
15400-
18600-
27700- | QUINCY | TOTAL POPULATION DESIGN HIGH LOW FORECAS | 132200.
115600.
131800.
123800. | RANDULPHTOTAL POPULATION DESIGN | 32500-
32900-
32000-
29100- |
| 13 | | 1960
1970
2000
2020
2050 | * | 1960
1970
1990
2000
2020
2050 | 25 | | 1960
1970
1990
2000
2020
2050 | 2 | 1960
1970
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL APEA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT | FORECAST | 1900.
3200.
6200.
7200. | | HIGH LOW FORECAST | 66000
94600
9900
9900
9900 | | OTHER EMPLOYMENT DESIGN HIGH LOW FORECAST | 1500.
3200.
8900.
9400.
1070d. | 900 | DESIGN | 1100.
3000.
3400.
5000. |
|---------|------------|----------|--|--------|---|--|----------|---|--|---|--------------------|---|
| | EMPL | 104 | 5800.
6500.
6700. | | ER EMPLO | 6100.
6100.
5900.
5500. | | ER EMPLO | 8700.
9400.
10500.
13600. | | 101 | 3000.
3500.
4200. |
| | OTHER | нІСН | 6600.
6900.
7700. | | HIGH | 7100.
6600.
6000. | | HIGH | 9000.
9300.
10900.
14900. | | нісн | 3000.
3300.
4300.
5200. |
| | PLOYMENT | ORECAST | 500.
1100.
1300.
1200. | | PLOYMENT
DESIGN
FOFECAST | 3000.
3000.
4000. | | PLOYMENT
DESIGN
FORECAST | 1300.
1500.
1400.
1300.
1500. | | DESIGN
FORECAST | 200.
400.
200.
200.
500. |
| | iii | 101 | 1200. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOFECAST | 300.
300. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1300.
1300.
1200. | SAN COLLEGE STATE OF THE SAN COLLEGE STATE OF | LOW | 300.
200.
400. |
| | MANUFACT | н16н | 1500.
1400.
1100. | | MANUFACT | 6000
0000
0000 | | MANUFACT | 1500.
1400.
1400.
2200. | | HIGH | 300°
300°
600° |
| | MENT | RECAST | 2500.
4300.
7600.
8100. | | MENT
DESIGN
FORECAST | 6000.
8600.
6700.
6300. | | MENT
DESIGN
FORECAST | 2700.
4700.
10200.
10700.
12000. | | DESIGN | 800.
1200.
3400.
4500. |
| | 6 | LOW FC | 7000.
7500.
7400. | | EMPLOYMENT DESIGN LOW FORECAST | 6400.
6400.
6100.
5800. | | EMPLOYMENT
DESIG
LCW FORECAS | 10000.
10700.
11700. | | NO 1 | 3300.
3700.
4400.
5200. |
| | TOTAL | нтен | 8200.
8300.
8800. | | TOTAL | 7400.
7000.
6400.
6700. | | T0TAL | 10500.
10700.
12300.
17100. | | нтен | 3500.
3600.
4600.
5700. |
| | DES I GN | RECAST | 19300.
22500.
29500.
32200.
34300. | | DESIGN
DESIGN
DRECAST | 40100.
43200.
45900.
46400.
44500. | | DESIGN
DRECAST | 13100.
15700.
18500.
19400.
19200. | | DESIGN | 4600.
5600.
9100.
10600.
13400. |
| | POPULATION | LOW FOR | 28 700.
31 400.
30800. | •00000 | POPULATION
DESIGN
LOW FORECAST | 45200.
45400.
43000. | | POPULATIC | 18100.
18900.
15500. | | LOW FOR | 8800.
10200.
12400.
14700. |
| PEALTNG | T01AL | ноп | 36200.
33100.
37900. | ZEVEZE | HIGH | 46503.
47300.
46000.
41900. | ROCKLAND | HIGH | 18900•
19900•
19900•
17700• | ROCKPORT | 416H | 9400•
11100•
14400•
20100• |
| | | | 1940
1940
2000
2020 | 82 | | 1960
1970
2000
2020
2020 | 2 | | 1960
1970
1990
2000
2020
2050 | 80 | | 1960
1970
2000
2020
2020 |
| | | | | | | | | | | | | |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY
SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT
DESIGN
LOW FORECAST | 9300.
12400.
13500.
12700.
11600. | DESIGN FORECAST | 2500-
6100-
11100-
11700-
12800-
16300- | | PESIGN DESIGN FORECAST | 1300.
1800.
4300.
5100.
7100. | | EMPLOYMENT
DESIGN
LOW FORECAST | 1500.
3000.
4900.
10700.
21500. |
|-------|---|--|---|--|----------|---|--|--------|---|--|
| | EMPL | 12900.
12300.
11100. | OTHER EMPLOYMENT
DESIGN
IIGH LOW FORECAST | 10400.
11200.
11900.
14600. | | HIGH LOW FORECAST | 4200.
5300.
7000.
8600. | | ENPL | 2700.
5000.
10000. |
| | HIGH | 14100.
13100.
12200.
13100. | H1GH | 11800.
12200.
13700.
18000. | | H16H | 4300.
4900.
7100.
9100. | | OTHER
HIGH | 3200.
4800.
11400.
23600. |
| | PLOYMENT
DESIGN
FORECAST | 6500.
5300.
3500.
3200.
2700. | PLOYMENT
DESIGN
FORECAST | 500.
600.
1300.
1300.
1100.
800. | | PLOYMENT
DESIGN
FORECAST | 1000.
1000.
1000.
1100. | | PLOYMENT
DESIGN
FORECAST | 1000
5000
6000
4000 |
| | URING EM | 2800.
2500.
2100.
1200. | URING EM | 1100.
1100.
900.
600. | | URING EM | 1000.
1100.
900. | | URING EM | 600.
300.
200. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 4100.
3800.
3200.
2300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1600.
1600.
1400.
1100. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1000.
1000.
1100.
800. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 700
600
500
500 |
| | MENT
DESIGN
FORECAST | 15800.
17700.
17000.
15900.
14300. | MENT
DESIGN
FORECAST | 3000.
6600.
12400.
13000.
13900. | | MENT
DESIGN
FORECAST | 1300.
1900.
5300.
6100.
8100. | | MENT
DESIGN
FORECAST | 2000.
2000.
3600.
5500.
11100.
21800. |
| | EMPLOYMENT
DESIGN
LOW FORECAST | 15700.
14800.
13200. | EMPLOYMENT
DESIGN
LOW FORECAST | 11500.
12300.
12800.
15200. | | EMPLOYMENT DESIG | 5200.
6300.
8100.
9500. | | EMPLOYMENT
DESIGN
LOW FORECAST | 3400.
5500.
10300.
19500. |
| | T0TAL | 18200.
16900.
15500. | TOTAL | 13300.
13700.
15100.
19100. | | T0TAL | 5300.
5900.
8200.
9900. | | TOTAL | 3900.
5500.
11900.
24100. |
| | DESIGN
FORECAST | 39200.
40500.
39000.
37600.
35400. | UN
DESIGN | 25100.
29300.
29500.
27100.
25500. | | DESIGN
PORECAST | 11200.
17000.
21100.
23300.
27500.
30400. | | DESTGN
DESTGN
DRECAST | 10100.
12400.
18000.
21500.
27200.
39200. |
| | POPULATION
DE
LOW FORE | 38600.
37000.
34500.
27500. | POPULATION
DE
LOW FORE | 28700.
28700.
26200.
23800. | | POPULATION
DE
LOW FORE | 20800.
22700.
26000.
25100. | | POPULATION
DE
LOW FORE | 17500.
20600.
25000.
32600. |
| SALEM | ТОТАL
НІСН | 39400.
38200.
36300.
29800. | SAUGUS
TOTAL
HIGH | 29900.
30300.
28000.
27300. | SCITUATE | T0TAL | 21500.
23900.
29000.
35800. | SHIRON | T0TAL | 18600.
22400.
29500.
45700. |
| 16 | | 1960
1970
2000
2020
2050 | 85 | 1960
1970
1990
2000
2020
2050 | 83 | | 1960
1970
1990
2000
2020
2050 | 48 | | 1960
1970
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION MASTEWATER STUDY
SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | DESIGN
FORECAST | 200-
200-
500-
1600-
12400- | NEW TO THE PARTY OF THE PARTY O | DESIGN
FORECAST | 15800.
18300.
14500.
13800.
12600. | | VMENT
DESIGN
FORECAST | 400.
1100.
2600.
6000. | DYMENT
DESIGN
FORECAST | 2000.
3400.
4200.
4700.
5900. |
|----------|---|--|--|--------------------|--|--------------|---|---|---|--|
| | OTHER EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 400.
1700.
4500.
10900. | STATE OF THE STATE | NO1 | 13300.
12900.
12000.
12000. | | OTHER EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1500.
2600.
5500.
10500. | HIGH LOW FORECAST | 3900.
4200.
4500.
5600. |
| | н16н | 500.
1500.
5200.
13900. | 100 | нтен | 15700.
14800.
13200.
13200. | | HIGH | 1700.
2600.
6500.
13900. | HIGH | 4200.
4300.
4800.
6200. |
| | PLOYMENT
DESIGN
FORECAST | 100.
0.
200.
200.
200.
300. | - N | DESIGN
FORECAST | 5200.
4300.
2800.
1800.
1000. | | PLOYMENT
DESIGN
FORECAST | 200.
200.
800.
800.
1000. | PLOYMENT
DESIGN
FORECAST | 800.
500.
500.
300. |
| | RING EMP | 200. | 2 V | HON EN | 2500.
1700.
1000. | | RING EMP | 600.
600.
800. | RING EMP | 400.
200.
200. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 200.
200.
200.
400. | MANIFACTIED TAG PAGE | н16н | 3100.
1900.
1000.
1100. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 900.
900.
1100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 600.
600.
300. |
| | MENT
DESIGN
FORECAST | 200.
300.
700.
1800.
5000. | NT. | DESIGN
FORECAST | 21000.
22600.
17300.
15600.
13600. | | MENT
DESIGN
FORECAST | 700.
1300.
2400.
3400.
7000. | MENT
DESIGN
FORECAST | 2700.
4300.
4500.
4700.
6200. |
| | EMPLOYME | 600-
1900-
4600-
11200- | A STATE OF THE STA | LOW | 15900.
14500.
13000. | | LOW | 2100-
3300-
6300-
11500- | EMPLOYMENT | 4300.
4600.
4800.
5800. |
| | TOTAL EMPLOYMENT DESIGN HIGH LOW FORECAST | 700•
1700•
5400•
14300• | 101 | нзи | 18800.
16700.
14200.
14300. | | HIGH | 2700.
3500.
7600.
15100. | HIGH | 4800.
4800.
5100.
6600. |
| | DESIGN
DRECAST | 1800.
3300.
7700.
10000.
14000. | | DESIGN
DRECAST | 94700.
88700.
70200.
69100.
68600. | | DESIGN
DRECAST | 4000.
5800.
9400.
12000.
17400.
28900. | 10N
DE SIGN
DRE CAST | 17800.
20700.
21800.
21300.
20000. |
| | POPULATION
DESI
LCW FORECA | 7400.
9400.
12700.
16100. | 1100 | LOW FOR | 69900.
67900.
65200.
65100. | I | POPULATION DI | 9100.
11500.
15700.
23200. | POPULATION
DESIGN
LCW FORECAST | 21400.
21000.
19700.
19600. |
| SHERBORN | T07AL | 8000.
10600.
15400.
23700. | SOVERVILLE | HIGH | 70400.
70200.
72000.
70900. | SOUTHBORCUGH | TOTAL POPULATION DESIGN HIGH LOW FORECAST | 9800.
12600.
19100.
34700. | STONEHAMTOTAL 41GH | 22100.
21700.
20300.
22700. |
| 85 | | 1960
1970
1990
2000
2020
2050 | 98 | | 1960
1970
1990
2000
2020
2050 | 18 | | 1940
1970
1990
2000
2020
2050 | 8 | 1940
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION MASTEWATER STUDY 10 CCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | DESIGN PORECAST | 1700.
2900.
860
9800.
13000. | EMPLOYMENT | 200.
600.
700.
1600.
3900. | | EMPLOYMENT
DESIGN
LOW FORECAST | 700.
2300.
5500.
7400.
12500. | | DESIGN
PORECAST | 1800.
2100.
2400.
2500.
2500.
2800. |
|-----------|---|--|---|--|---------|---|---|------------|---|--|
| | EMPL
LOW | 8400.
10000.
12600.
16400. | EMPLO | 700.
1600.
3700.
9200. | | EMPL | 5000.
7300.
11500.
16400. | | OTHER EMPLOYMENT
DESIGN
IGH LOW FORECAST | 2500.
2500.
2500. |
| | HIGH | 8800.
9700.
13500.
19400. | HIGH | 700.
1600.
4100.
11500. | | HIGH | 5900.
7500.
13400.
19500. | | HIGH | 2500.
2600.
2400.
2500. |
| | PLOYMENT
DESIGN
FORECAST | 1600.
1900.
2300.
2400.
2400. | 4PLOYMENT
DESIGN
FORECAST | 100.
100.
100.
100.
300. | | PLOYMENT
DESIGN
FORECAST | 1200.
1700.
1900.
2000.
2000. | | APLOYMENT
DESIGN
FORECAST | 1000.
1000.
1000.
000. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2100.
2100.
2100.
1700. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1000. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1700.
1700.
1800. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 1000 |
| | MANUFACT | 2600.
2600.
2700.
2600. | MANUFACT | 200. | | MANUFACT | 2100.
2100.
2200.
2200. | | MANUFACT | 1000 |
| | DESIGN
FOPECAST | 3300.
4800.
10900.
12200.
15400.
20000. | MENT
DESIGN
FORECAST | 300.
700.
800.
1700.
4100. | | MENT
DESIGN
FORECAST | 1900.
4000.
7400.
9300.
14500.
19900. | | DESIGN
FORECAST | 1900.
2200.
2400.
2500.
2800. |
| | EMPLOYMENT DESI | 10500.
12100.
14700. | EMPLOYMENT
DESIGN
LCW FORECAST | 800.
1700.
3800.
9400. | | EMPLOY | 6700.
9000.
13400.
18100. | | EMPLOYMENT DESIG | 2300.
2600.
2500.
3000. |
| | TOTAL | 11400.
12300.
16100.
21900. | TOTAL | 900.
1700.
4300.
11800. | | HIGH | 9600.
9600.
15600.
21600. | | TOT AL | 2600.
2600.
2500.
2600. |
| | DESIGN
PESIGN
RECAST | 16300.
23500.
32500.
36500.
42000. | ON
DESTGN
RECAST | 2600.
4000.
6600.
8300.
12000. | | DESIGN
DESIGN
DECAST | 7400.
13500.
28500.
34700.
45400.
62100. | | DESIGN
PORECAST | 13300.
13600.
16200.
17200.
18200. |
| | POPULATION
DE
LOW FORE | 31800.
35500.
39800. | POPULATION
DE
LOW FORE | 6400.
8000.
10800.
16400. | | POPULATION
DE
LOW FORE | 27600.
33300.
41900.
52200. | | POPULATION
DE
LOW FORE | 15900.
16700.
17300.
18000. |
| STJUGHTON | T3TAL | 33100.
37500.
44200.
50300. | STONTOTAL HIGH | 6800-
8700-
13200-
24300- | SUDBURY | TOTAL | 29400.
36100.
49000.
71900. | SWAMPSCOTT | TOTAL | 16500•
17600•
19000•
22000• |
| 8 | | 1560
1570
1990
2000
2020
2050 | 06 | 1960
1970
1990
2000
2020
2050 | 91 | | 1960
1970
1990
2000
2020
2050 | 92 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOVMENT
DESIGN
LOW FORECAST | 900-
2100-
5000-
6700-
10900-
17000- | 1007 | EMPLOYMENT DESIGN LOW FORECAST | 300.
500.
1100.
2000.
4500.
8600. | | DESIGN
FORECAST | 4200.
6600.
7100.
7200.
8700. | | DYMENT
DESIGN
FORECAST | 1900.
3500.
7000.
9200.
13900.
20100. |
|-----------|---|---|-----------|---|--|-----------|---|---|---------|---|--|
| | LOW | 4600.
6600.
10100.
14800. | | HOT | 1000.
2100.
4200.
7800. | | DESIGN LOW FORECAS | 6800.
7200.
7200.
8700. | | HIGH LOW FORECAS | 6900.
9600.
13600. |
| | HIGH | 5500.
6800.
11700.
19100. | | 07HER
HIGH | 1200.
2000.
4700.
9300. | | нтен | 7000.
7100.
7200.
8700. | | H16H | 7000.
8800.
14200.
21400. |
| | PLOYMENT
DESIGN
FORECAST | 1200.
1200.
3400.
3500.
3700.
2200. | | PLOYMENT
DESIGN
FCRECAST | 1000. | | PLOYMENT
DESIGN
FORECAST | 5000.
3400.
2100.
1800.
1300.
500. | | MPLOYMENT
DESIGN
FORECAST | 3000.
3100.
3000.
3000.
2300. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 3200.
3200.
3400.
1400. | 2 | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FCRECAST | 100.
300.
400. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2000-
1700-
1300- | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2600.
2700.
2700.
1700. |
| | MANUFACT | 3700.
3700.
3900. | | MANUFACT | 100.
300.
400. | | MANUFACT | 2100.
1800.
1400.
700. | , | MANUFACT
HIGH | 3300.
3400.
3400.
3000. |
| | DESIGN
FORECAST | 1000.
3300.
8500.
10200.
14500. | | MENT
DESIGN
FORECAST | 400.
600.
1200.
2400.
4800.
9500. | | DESIGN
PORECAST | 9200.
10000.
9000.
8900.
8500. | | DESIGN
FORECAST | 4900.
6600.
10000.
12200.
16900.
22400. |
| | TOTAL EMPLOYMENT
DESI
IGH LCW FOPECA | 7800.
9800.
13500.
16200. | | LOW | 1100.
2400.
4600.
8700. | | EMPLOYMENT DESIGN LOW FORECAS | 8800.
8900.
8400.
9100. | | EMPLOYMENT DESI LOW FORECA | 9500.
12300.
16300.
20500. |
| | HIGH | 9100.
10500.
15600.
22200. | | HIGH | 1300.
2300.
5100.
10300. | | T0TAL | 9100.
8900.
8500.
9400. | | TOTAL | 10400.
12200.
17600.
24400. |
| | DESIGN
FORECAST | 15900.
22600.
29000.
32200.
36000. | | DESIGN
PERECAST | 3400.
5200.
9300.
11700.
16000. | | DESIGN
PORECAST | 24300.
25400.
32500.
35800.
39900. | | DESIGN
FORECAST | 14100.
18100.
29400.
35400.
44700.
54200. |
| | POPULATION
DE
LCW FORE | 28300.
31200.
33900. | | POPULATION
DE
LOW FORE | 9000.
11200.
14600.
18700. | | POPULATION
DE
LCW FORE | 31800.
34700.
37600. | | POPULATION
DE
LOW FORE | 28500.
34000.
41400.
46100. |
| TEAKSBURY | T0TAL | 29600•
33300•
38100•
44000• | TOOSFIELD | TOTAL | 9600•
12200•
17400•
26600• | WAKEFIELD | 416H | 33300.
37000.
42200.
50200. | MALPOLE | T0TAL | 30300.
36800.
48000.
52300. |
| 93 | | 1940
1970
1990
2000
2020
2050 | * | | 1940
1970
2000
2020
2050 | 95 | | 1960
1970
2000
2020
2050 | 96 | | 1960
1970
1990
2020
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| EMPLOYMENT
DESIGN
LOW FORECAST | 16200.
24500.
29400.
29100.
27100. | EMPLOYMENT
DESIGN
LOW FORECAST | 7500.
11800.
11000.
10900.
10800.
7900. | | EMPLOYMENT
DESIGN
LOW FORECAST | 900.
2100.
5400.
6800.
9300. | EMPLOYMENT
DESIGN
LOW FORECAST | 4900.
11000.
11800.
13300. |
|---|---|---|---|---------|---|--|---|--|
| EMPLO | 28200.
28400.
25400.
25300. | EMPLO | 10600.
10600.
10500.
7700. | | EMPLC | 5300.
7100.
9300.
11900. | LOW | 10600.
11600.
12800.
16300. |
| OTHER
H1GH | 30600.
29800.
28800.
29600. | ОТНЕВ | 11500.
11300.
11000.
8000. | | OTHER
H1GH | 5400.
6500.
9300.
12500. | HIGH | 11400.
12000.
13900.
19300. |
| PLOYMENT
DESIGN
FORECAST | 21000.
22800.
18000.
16300.
14200.
8800. | PLOYMENT
DESIGN
FORECAST | 9800.
4600.
2200.
1900.
1700. | | PLOYMENT
DESIGN
FORECAST | 2700.
2700.
4000.
4000.
3900. | PLOYMENT
DESIGN
FORECAST | 500.
1000.
1000.
900.
1000. |
| MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 14300.
13000.
10900.
6100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FCRECAST | 2100.
1900.
1700.
1600. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 4000.
4000.
3800. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 9000 |
| MANUFACT | 21700.
19600.
17500.
11600. | MANUFACT | 2300.
2000.
1700.
1800. | | MANUFACT | 4000
4000
4000
4000
4000 | MANUFACT | 1000. |
| MENT
DESIGN
FORECAST | 37300.
47400.
47400.
45400.
41300. | MENT
DESIGN
FORECAST | 17300.
16400.
13200.
12900.
12400.
9600. | | MENT
DESIGN
FORECAST | 3500.
4800.
9400.
10800.
13400.
16100. | MENT
DESIGN
FORECAST | 5400.
9900.
12000.
12800.
14300. |
| EMPLOYMENT
DESI
LOW FORECA | 42400.
41400.
36400.
31400. | EMPLOYMENT—-
DESI
LOW FORECA | 12700.
12500.
12200.
9300. | | EMPLOYMENT
DESI
LOW FORECA | 9300.
11100.
13400.
15700. | EMPLOYMENT
DESIG
LOW FORECAS | 11600.
12600.
13700.
16800. |
| HIGH | 52300-
49400-
46300-
41200- | T0TAL | 13700.
13300.
12700.
9800. | | TOTAL | 9400.
10500.
13400.
16500. | TOTAL | 12400.
13000.
14900.
19700. |
| ON
DESIGN
RECAST | 55400.
61600.
81600.
85000.
84900. | ON
DESIGN
RECAST | 39100.
39300.
33000.
31700.
30600. | | DESIGN
FORECAST | 10400.
13500.
23300.
28300.
36700.
45800. | AT ION
DESIGN
FORECAST | 26100.
28000.
31500.
31600.
32700. |
| POPULATION
DI
LOW FOR | 79700.
81800.
80000.
68900. | POPULATION DE | 33000.
31600.
30100.
28600. | | POPULATION DI | 22700.
27300.
34000.
37400. | POPULATIO
D
LOW FOR | 30900.
30300.
31000.
27900. |
| WALTHAMTOTAL HIGH | 83600.
\$8200.
89800.
90200. | WATERTOWNTOTAL HIGH | 33000.
31800.
31100.
31000. | WAYLAND | TGTAL | 23900•
25300•
39300•
54200• | WELLESLEY
TOTAL
41GH | 32100-
33000-
34400-
30100- |
| 16 | 1940
1970
1990
2000
2020
2050 | 86 | 1960
1970
1990
2000
2020
2050 | 66 | | 1960
1970
1990
2000
2020
2050 | 100 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | I SE | 200.
300.
400.
800.
3400. | TSN AST | 800.
3400.
5800.
6900.
4600. | | 1GN
1GN | 500.
900.
1600.
4200.
2600. | | 1GN
AST | 1500.
3200.
6400.
8300.
5200. |
|---------|---|--|---|---|----------|---|---|--------|---|---|
| | EMPLOYMENT DESIGN LOW FORECAST | 1884 | EMPLOYMENT
DESIGN
LOW FORECAST | 8 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | EMPLOYMENT DESIGN LOW FORECAST | 500-
900-
1600-
4200-
12600-
21200- | | EMPLOYMENT DESIGN LOW FORECAST | 1500-
3200-
6400-
8300-
12000-
15200- |
| | R EMPLO | 400.
900.
1700.
3200. | | 5400.
6700.
9100. | | | 1500.
3700.
11500.
18400. | | | 6400.
8100.
11500. |
| | ОТНЕР
HIGH | 400.
800.
1800.
3500. | OTHER
HIGH | 6200.
7100.
10700.
16300. | | 0THER | 1800.
4600.
13600.
24000. | | 0THER
HIGH | 6500-
8500-
12500-
15100- |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 0.
0.
300.
300.
700. | MANUFACTUPING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1300.
1800.
2800.
2700.
2800. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 900.
1100.
1300.
2100.
2400.
2100. | | PLOYMENT
DESIGN
FORECAST | 100.
0.
700.
600.
700. |
| | JR TNG EN | 100.
300.
700. | UP ING EN | 2200.
2100.
2300.
2400. | | URING EN | 1100.
1100.
1500.
1300. | | JR ING EN | 500.
500.
600. |
| | MANUFACT | 100.
400.
700. | MANUFACTI | 3500.
3300.
3300. | | MANUFACT | 1400.
3000.
3300.
2900. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 800.
700.
800. |
| | MENT
DESIGN
FORECAST | 200.
300.
500.
1200.
2100.
4100. | MENT
DESIGN
FORECAST | 2200.
5200.
8600.
9600.
12600. | | MENT
DESIGN
FORECAST | 1400.
2000.
2900.
6200.
14900.
23300. | | MENT
DESIGN
FORECAST | 1600.
3300.
7100.
8900.
12700.
15800. |
| | EMPLOYMENT DESI LOW FORECA | 500.
1200.
2000.
3900. | EMPLOYMENT | 7700.
8800.
111400.
15200. | | EMPLOYMENT
DESIG
LOW FORECAS | 2700.
4900.
13000. | | EMPLOYMENT
DESIG
LOW FORECAS | 6900.
8600.
12100.
15800. |
| | T0TAL | 500.
1100.
2200.
4200. | T0TAL | 9600.
10300.
13900.
19600. | | HIGH | 3200.
7600.
16900.
26900. | | TOTAL | 7300.
9200.
13300.
15900. |
| | DESIGN
PORECAST | 2800.
3800.
7300.
9200.
12400.
16800. | OESIGN
PORECAST | 9600.
12600.
17900.
20800.
26300.
34900. | | DESIGN
FORECAST | 6300.
10400.
13800.
16700.
25700.
44800. | | DESIGN
PESIGN
FORECAST | 8300.
10900.
17000.
21500.
27400.
24400. |
| | POPULATION
DE
LOW FORE | 7100.
8700.
11300.
14400. | HODANTS | 17400.
20100.
24500.
29600. | | POPULATION
DE
LOW FORE | 13400.
16000.
22900.
35900. | | POPULATION
OS
LOW FORE | 16700.
20800.
26200.
23800. |
| WE VHAM | T3TAL | 7500.
9600.
13500.
19200. | WESTBOROUGH | 18300-
21500-
28200-
40300- | WESTFORD | T0TAL | 14100.
17300.
28400.
53700. | WESTON | T0TAL | 17400.
22200.
28600.
25000. |
| 101 | | 1960
1970
1990
2000
2020
2050 | 102 | 1960
1970
2000
2020
2020 | 103 | | 1940
1990
2000
2020
2050 | 104 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY 10 OCT 73 SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| YMENT | FORECAST | 1900.
3500.
9200.
10000.
12500. | DESIGN
PORECAST | 4600.
11600.
11400.
11900.
11800. | | YMENT
DESIGN
FORECAST | 5700.
8500.
19900.
23100.
29600.
37300. | DESIGN
FORECAST | 2600.
3500.
2200.
2200.
1900. |
|--------------------------|----------|--|---|--|------------|---|---|---|--|
| OTHER EMPLOYMENT | MCJ | 9000.
10100.
10600.
12400. | OTHER EMPLOYMENT
DESIG
11GH LOW FORECAS | 10900.
11700.
11200. | | OTHER EMPLOYMENT
DESIGN LOW FORECA: | 18700.
22600.
27600.
33500. | OTHER EMPLOYMENT | |
| 110 | нтен | 9400.
9900.
10600.
12600. | H1GH | 11900.
12200.
12500.
14400. | | н16н | 21100.
23600.
31500.
41100. | 10 | 2500.
2400.
2000.
2800. |
| LOYMENT | FORECAST | 100.
400.
700.
700.
400. | APLOYMENT
DESIGN
FORECAST | 1000.
800.
1200.
1200.
1000. | | PLOYMENT
DESIGN
FORECAST | 500.
3200.
3100.
2700.
2200. | 4PLOYMENT
DESIGN
FORECAST | 700.
400.
400.
200. |
| MANUFACTUPING EMPLOYMENT | LOW | 6000
6000
300 | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1000.
1000.
800.
300. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 2800.
2700.
2400.
2100. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORFCASI | |
| MANUFACTI | н16н | 9000
8000
5000 | MANUFACT | 1300.
1300.
1200.
600. | | MANUFACT
HIGH | 3400.
3300.
2400. | MANUFACT | 300.
300. |
| ENT | FORECAST | 2000.
3900.
9900.
10700.
11300. | MENT
DESIGN
FORECAST | 5500.
12300.
12600.
13100.
13800. | | MENT
DESIGN
FORECAST | 6200.
11800.
23000.
26100.
32200.
39500. | MENT
DESIGN | 3300.
4300.
2600.
2500.
3200. |
| EMPLOYMENT | LOW | 9600.
10700.
11200. | EMPLOYMENT
DESIGN
LOW FORECAST | 11900.
12700.
12000.
12700. | | EMPLOYMENT DESI LOW FORECA | 21500.
25300.
30000.
35500. | EMPLOYMENT DESIGN | 0000 |
| TOTAL | нівн | 10200.
10700.
11400.
13000. | T0TAL | 13300.
13600.
13600.
15000. | | TOTAL | 24600.
27000.
34400.
43500. | HIGH | 2900.
2700.
2200.
3100. |
| NO | DESIGN | 10400.
12700.
20100.
23400.
27600. | ON
DESIGN
DRECAST | 48200.
54600.
60700.
60700.
61100. | | DESIGN
DRECAST | 12500.
17100.
27400.
32000.
37000. | ION
DESIGN | |
| POPULATIO | LOW FOR | 19500.
22500.
25800.
26500. | POPULATION
DESIG
LCW FORECAS | 59600.
59100.
58300.
56500. | | POPULATION
DESIG
LOW FORECAS | 26500.
30700.
34500.
33400. | POPULATION DESIG | 0000 |
| WESTWOOD | нІвн | 24300.
24300.
29300.
32900. | WEYMOUTH
TOTAL
HIGH | 61800.
62400.
63900.
65300. | WILMINGTON | T0TAL
HIGH | 28200.
33200.
39400.
43600. | WINCHESTER | •••• |
| 105 | | 1960
1670
1990
2000
2020
2050 | 106 | 1960
1970
1990
2000
2020
2050 | 101 | | 1960
1970
1990
2000
2020
2050 | 108 | 1960
1970
1990
2000
2020
2050 |

METPOPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | 1 8 5 | 363333 | 185 | 000000 | | N L | 000000 | | GN | 000000 |
|----------|------------------------------------|--|---|---|----------|---|--|---------------------------------|---------------------|---|
| | EMPLOYMENT DESIGN LOW FORECAST | 1400.
2100.
1100.
1400.
2300. | EMPLOYMENT
DESIGN
LOW FORECAST | 3000-
6600-
12400-
12500-
11800-
13500- | | EMPLOYMENT
DESIGN
LOW FORECAST | 700.
1200.
2700.
4600.
10700.
21300. | MANAGEMENT | DES 1GN
FORECAST | 253000-
302700-
325400-
321500-
313500-
30300- |
| | | 900•
1300•
2100•
3300• | | 12000.
12200.
11100.
12400. | | | 2400.
4600.
9700.
18200. | | | 327300.
320000.
305000.
293700. |
| | нтен | 1200.
1400.
2500.
3400. | ОТИЕВ | 12700.
12700.
12500.
14700. | | OTHER
HIGH | 2900.
4500.
11700.
24500. | AHTO | нтен | 323500.
323000.
322000.
306800. |
| | EMPLOYMENT
DESIGN | 200.
100.
100.
200. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORFCAST | 3400.
4200.
4100.
3700.
2700.
1200. | | MANUFACTURING EMPLOYMENT
PESIGN
HIGH LOW FORECAST | 400.
500.
1400.
2300.
2600.
2800. | AND COMPANY OF MENTAL PROPERTY. | DESIGN | 35400.
25500.
9300.
9000.
8800.
8500. |
| | URING EN | 2000 | URING EN | 3700•
3300•
2300•
700• | | URING E | 1300.
1400.
1700.
1900. | A SN T AIL | 1 0 | 9300.
8800.
8400. |
| | MANUFACTURING
HIGH LOW | 100. | MANUFACT | 4500.
4100.
3200.
1600. | | MANUFACT | 1500.
3200.
3600.
3600. | FOATINAM | нтен | 9300.
9300.
9600.
8600. |
| | MENT
DESIGN
FORECAST | 1600.
2200.
1100.
1400.
2300. | MENT
DESIGN
FORECAST | 6400.
10800.
16500.
16100.
14600.
14700. | | MENT
DESIGN
FORECAST | 1200.
1600.
4000.
6900.
13300.
24100. | 1 | DESIGN | 288500.
328200.
334700.
330500.
322300. |
| | EMPLOYMENT
DESIG
LOW FORECAS | 1300.
1300.
2100.
3500. | EMPLOYMENT
DESIGN
LOW FORECAST | 15700•
15500•
13400•
13100• | | EMPLOYMENT
DESIG
LOW FORECAS | 3700.
6000.
111400.
20100. | | LOW F | 336600.
328800.
313000.
302100. |
| | TOTAL | 1300.
1400.
2500.
3600. | TOTAL | 17300.
16700.
15700.
16300. | | HIGH | 4400.
7700.
15300.
28100. | 101. | нзен | 332900•
332300•
331600•
315300• |
| | DESIGN
FORECAST | 20300.
20300.
15900.
14600.
12100. | ATION
DESIGN
FORECAST | 31200.
37400.
46800.
50300.
51600. | | DESIGN
PORECAST | 6700.
7500.
11200.
14500.
22100.
38000. | ļ | DESIGN
FORECAST | 82500•
67100•
75500•
86700•
121100• |
| | POPULATION DO LOW FOR | 15800.
14500.
12000. | HOD TO MODI | 45700.
48900.
49100.
40100. | | POPUL | 10900.
13800.
19900.
30800. | TON PROPER | LOW | 75100.
88200.
119100.
164900. |
| WINTHROP | T0TAL | 16003.
14700.
12200.
15400. | MOSE IN | 47900.
51800.
54100.
50400. | WRENTHAM | TOTAL | 11500.
15100.
24300.
45100. | BOSTON PROPER | 416н | 75900•
95200•
123100•
137500• |
| 109 | | 1960
1970
1990
2000
2020
2050 | 110 | 1960
1970
1990
2000
2020
2050 | === | | 1960
1970
1990
2000
2020
2050 | 112 | | 1960
1970
1990
2000
2020
2050 |

METPOPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT
DESIGN
LOW FORECAST | 16200.
19700.
17400.
17100.
16500. | VMENT
DESIGN
FORECAST | 12300.
12300.
10500.
10600.
11200. | | DESTGN | 18500.
22200.
21500.
21000.
19900. | EMPLOYMENT | FORECAST | 1400.
1700.
1400.
2900. |
|----------|---|--|---|--|------------|---|--|--------------------------|----------|--|
| | EMPLC | 15900.
15900.
15300. | OTHER EMPLOYMENT DESIGN | 10500.
10200.
9900.
10400. | | HIGH LOW FORECAST | 20400.
20000.
19200.
19500. | ENPLO | ron | 500.
1300.
2800.
3900. |
| | OTHER
HIGH | 18500.
18300.
17700. | н16н | 10500.
10600.
11000.
12000. | | нзен | 22600.
21900.
20600.
21000. | OTHER | н16н | 700.
1500.
2900. |
| | MPLOYMENT
DESIGN
FORECAST | 3500.
2500.
1800.
1900.
2100. | PLOYMENT
DESIGN
FORECAST | 14000.
2800.
3300.
4400. | | DESIGN
FORECAST | 6600.
4700.
2200.
2200.
2300.
1600. | PLOYMENT | FORECAST | 30000 |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 1500.
1700.
1900.
1700. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOPECAST | 2000.
2400.
3700.
3200. | | MANUFACTURING EMPLUYMENT DESIGN HIGH LOW FORECAST | 2000.
2000.
1900.
800. | MANUFACTURING EMPLOYMENT | 101 | 3000 |
| | MANUFACT | 2100.
2200.
2300.
1900. | MANUFACT | 3700.
4100.
5100.
4500. | | HIGH | 2300.
2300.
2600.
2300. | MANUFACT | н16н | 300.
300.
400. |
| | DESIGN
FORECAST | 19700.
22300.
19200.
19000.
18600. | MENT
DE SIGN
FORECAST | 24000.
22400.
13300.
13700.
14800. | | DESIGN
FORECAST | 25100.
26900.
23700.
23100.
22200.
21800. | I L | FORECAST | 1400.
1700.
1700.
3200.
4300. |
| | EMPLOYMENT-
DES
LOW FOREC | 17700.
17600.
17200.
17000. | EMPLOYMENT
DE SIGN
LOW FORECAST | 12500.
12600.
13600.
13600. | | TON TON | 22500.
22000.
21100.
20300. | EMPLOYMENT | LOW FO | 800.
1700.
3100.
4200. |
| | HIGH | 20700.
20400.
20000.
19600. | HIGH | 14200.
14700.
16100.
16500. | | HIGH | 24200.
24200.
23200.
23300. | TOTAL | н16н | 1000.
1800.
3200.
4300. |
| | DESIGN
FORECAST | 64300.
63600.
57300.
53900.
48900. | ION
DESIGN
DRECAST | 20600.
15400.
11500.
11000.
9900. | | DESIGN
FORECAST | 117100.
112100.
117200.
121200.
139500. | NO | FORECAST | 29900.
25700.
16000.
13900.
12900. |
| | PCPULATION
DE
LOW FORE | 57100.
52500.
45800.
33600. | POPULATION DE LOW FORE | 11500.
10800.
9000.
6500. | | LOW FOR | 116500.
118700.
131900. | 3 | LOW F | 15900.
13200.
11000.
7400. |
| BRIGHTON | HIGH | 57500.
55300.
52100. | CHARLESTOWN
TOTAL
HIGH | 11500.
11300.
10700.
8400. | DORCHESTER | 416H | 117900.
123800.
147100.
124600. | DO3CHESTER (N) | н91н | 14000.
14600.
14800.
11300. |
| 113 | | 1960
1970
1990
2000
2020
2050 | *** | 1960
1970
1990
2000
2020
2050 | 115 | | 1960
1970
1990
2000
2020
2050 | 116 | | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION MASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT DESIGN | 6700-
6300-
6100-
5700-
6300- | EMPLOYMENT
DESIGN
LOW FORECAST | 6900.
6800.
7000.
7400.
8100.
9500. | | EMPLOYMENT
DESIGN
LOW FORECAST | 100.
1600.
1800.
1900.
2200.
3200. | EMPLOYMENT
DESIGN
LOW FORECAST | 3900.
4800.
8500.
7700.
6200. |
|-------------|---|--|---|--|----------------|---|---|---|--|
| | LOW | 6100.
5800.
6100. | EMPLO | 6600.
7100.
7400. | | EMPLO | 1600.
1800.
2300.
3300. | EAPLE | 8500.
7500.
5800.
6200. |
| | HIGH | 6500
6500
6500
6500 | HIGH | 7300.
7700.
8400.
9600. | | 0THER
HIGH | 1900.
2000.
2200.
3100. | HIGH | 8500.
7900.
6600. |
| | PLOYMENT
DESIGN
FORECAST | 900.
600.
200.
200.
300. | PLGYMENT
DESIGN
FORECAST | 2200.
1600.
800.
900.
800. | | IPLOYMENT
DESIGN
FORECAST | 200. | APLOYMENT
DESIGN
FORECAST | 3100.
2200.
1400.
1400.
1400. |
| | LOW LOW | 200. | LOW LOW | 800.
800.
700. | | RING EM | 1000. | RING EN | 1300.
1300.
1200.
1100. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 200.
300.
300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 800.
900.
1000.
1600. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 0.
300.
200.
200. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FCRECAST | 1400.
1500.
1600. |
| | DESIGN
FORECAST | 7500.
8900.
6600.
5900.
5900. | MENT
DESIGN
FORECAST | 9000.
8400.
7800.
8200.
9000. | | MENT
DESIGN
FORECAST | 100.
1600.
1800.
2100.
2400. | MENT
DE SIGN
FORECAST | 7000.
7000.
9900.
7600. |
| | EMPLOYMENT DESIG | 6400.
6000.
5500.
6300. | EMPLOVMENT
DESI
LOW FORECA | 7400•
7900•
8600•
10500• | | EMPLOYMENT DEST | 1600.
1900.
2400.
3500. | EMPLOYMENT DESI LOW FORECA | 9800.
8800.
7000. |
| | HIGH | 6800.
6400.
6300.
6800. | T0TAL | 8200.
8600.
9400.
11200. | | T0TAL | 1900.
2300.
2400.
3300. | T0TAL | 9900.
9300.
8200. |
| | DESIGN
PORECAST | 45900.
38800.
30800.
29000.
26800. | ATION
DESIGN
FORECAST | 41500.
38300.
24000.
22400.
20900.
19900. | | DESIGN
FORECAST | 9600.
10000.
6200.
6100.
5300.
4400. | AT ION
DESIGN
FORECAST | 33100.
38300.
39200.
39100.
34500.
24900. |
| | POPULAT | 30600.
28100.
24100.
20900. | ਤ ₃ | 24 000.
21 700.
18 700.
17 500. | Z | POPULATION D LOW FOR | 6200.
5800.
4700.
3600. | POPULATION DI | 38800.
37800.
31100. |
| EAST BOSTON | TOTAL POPULATION
DESI
AIGH LOW FORECA | 30900.
30000.
29400.
25300. | FNWY-JMACA (D)TOTAL POP HIGH LO | 24100.
23200.
23200.
22300. | FNWY-JMACA (N) | T3TAL H1GH | 6300.
6400.
6000.
5200. | HYDE PARK | 35600.
40400.
37800.
28700. |
| 111 | | 1960
1970
2000
2020
2050 | 118 | 1960
1970
2000
2020
2050 | 119 | | 1960
1970
1990
2000
2020
2050 | 120 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT DESIGN LOW FORECAST | 2300.
2800.
2300.
2300.
2300.
1900. | DESIGN FORECAST | 3600.
4400.
9700.
7100.
10000. | *458,860° | DESIGN
PORECAST | 66300.
79400.
73200.
70600.
66000. | EMPLOYMENT
DESIGN
LOW FORECAST | 23500.
29300.
26500.
23500.
23500.
24300. |
|----------|---|--|--|--|-----------|---|--|---|--|
| | EMPL | 2200.
2200.
2200.
2000. | OTHER EMPLOYMENT DESIGN IGH LOW FORECAST | 9400.
8800.
7000. | | HIGH LOW FORECAST | 72100.
69000.
64000.
67500. | ENP | 26500.
24900.
22000.
23000. |
| | OTHER
HIGH | 2400.
2400.
2400.
1800. | HIGH | 10100.
9100.
7300.
9400. | | H16H | 74400.
72200.
68000. | HIGH | 26500.
25900.
25000.
25500. |
| | APLOYMENT
DESIGN
FORECAST | 200.
1000.
2000.
4000.
4000. | EMPLOYMENT
DESIGN | 900.
2000.
3000.
4000. | | PLOYMENT
DESIGN
FORECAST | 9600.
6900.
2200.
2100.
2000. | 4PLOYMENT
DESIGN
FORECAST | 10900.
7900.
4400.
4500.
2800. |
| | RING EMP | 200. | <u> </u> | 100.
200.
300.
200. | | RING EMP | 2200.
2100.
1800.
800. | RING EMP | 3500.
3600.
3900.
2400. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 200. | MANUFACTURING
HIGH LOW | 300.
400.
500. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOM FORECAST | 2100.
2100.
2100.
1000. | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 5200.
5200.
5100. |
| | MENT
DESIGN
FORECAST | 2500.
2900.
2500.
2700.
2700. | MENT
DESIGN
FORECAST | 4500.
5000.
10000.
9200.
7500. | | DESIGN
FORECAST | 75900.
86400.
75400.
72700.
68000. | MENT
DESIGN
FORECAST | 34500.
37200.
30900.
29800.
28000. |
| | EMPLOYMENT
DESI
LOW FORECA | 2400•
2400•
2400•
2300• | EMPLOYMENT
DESI
LOW FORECA | 9600.
9000.
7300.
10800. | | EMPLOYMENT
DESIGN
LOW FORECAST | 74200.
71100.
65800.
68300. | EMPLOYMENT
DE SIGN
LOW FORECAST | 30000.
28500.
25900. |
| | T07AL | 2600.
3000.
3000.
2400. | T0TAL | 10400.
9500.
7800.
9800. | | T0TAL | 76500.
74300.
70100.
70500. | HIGH | 31700.
31100.
30100.
28600. |
| | ON
DESIGN
RECAST | 35600.
37200.
37500.
35200.
31200.
27900. | ON
DESIGN
DRECAST | 26500.
28200.
40700.
42000.
44600.
66500. | | DESIGN
DESIGN
DRECAST | 98200.
65900.
58500.
54300.
52200. | DESIGN
DECAST | 53800.
43100.
33300.
25600.
23200. |
| | POPULATIO | 37500.
34400.
28600.
25100. | POPULATION
DESI
LOW FORECA | 39400.
39900.
40800.
61100. | | POPULATION | 65400.
55800.
47400.
42600. | POPULATION FOIL | 33300.
30000.
23800.
21200. |
| MATTAPAN | T3TAL | 37500.
36100.
33800. | SOSLINDALETOTAL HIGH | 41900.
44200.
48400.
71900. | ROXBURY | TOTAL | 66400.
61300.
51100.
61800. | SOJTH BOSTON | 33200.
31000.
27400.
25200. |
| 121 | | 1960
1970
2000
2020
2050 | 122 | 1960
1970
1990
2000
2020
2050 | 123 | | 1960
1970
1990
2000
2020
2050 | 121 | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | EMPLOYMENT
DESIGN
LOW FORECAST | 2300.
2800.
2500.
2500.
2500.
2600. | YMENT
DESIGN
FORECAST | 414700.
498800.
513200.
504200.
485900. | | VMENT
DESIGN
FORECAST | 15000.
15000.
15300.
15100.
14800. | EMPLOYMENT
DESIGN
LOW FORECAST | 2200-
3400-
5300-
6400-
8600- |
|--------------|---|--|---|--|-------------------|---|--|---|--|
| | HOT | 2400.
2400.
2400.
2700. | DESIGN HIGH FORECAST | 510100.
496900.
471100. | | DESIGN LOW FORECAST | 14900.
15000.
14600.
15600. | | 5000.
5400.
7500. |
| | 0THFP | 2600.
2600.
2600.
2900. | 416н | 516100.
511500.
502700.
496600. | | HIGH | 15700.
15200.
15100.
16800. | HIGH | 5700.
5800.
6800. |
| | PLOYMENT
DESIGN
FORECAST | 300.
300.
300.
300.
200. | PLOYMENT
DESIGN
FORECAST | 87600.
62900.
26100.
26800.
28200.
23500. | | PLOYMENT
CESIGN
FORECAST | 400.
200.
100.
400. | PLOYMENT
DESIGN
FOFECAST | 200.
100.
400.
300. |
| | MANUFACTURING EMPLOYMENT
CESIGN
HIGH LOW FORECAST | 300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 23700.
24000.
24400.
21000. | | MANUFACTURING EMPLOYMENT
CESIGN
HIGH LOW FORECAST | 1000 | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FOFECAST | 100.
300.
200. |
| | MANUFACT | 300.
300.
300. | MANUFACT | 28200.
29800.
31600.
26200. | | MANUFACT | 2000
1000
400 | MANUFACT | 100.
400.
400. |
| | MENT
DESIGN
FORECAST | 2600.
3000.
2800.
2800.
3000. | MENT
DESIGN
FORECAST | 502300.
561900.
539500.
530900.
515000. | | MENT
DESIGN
FORECAST | 13300.
15400.
15500.
15300.
14800. | MENT
DESIGN
FORECAST | 2500.
3700.
5400.
5900.
6600. |
| | EMPLOYMENT DESI LOW FORECA | 2600.
2600.
2600.
2900. | EMPLOYMENT
DESIGN
LOW FORECAST | 534100.
520900.
495500.
494500. | | EMPLOYMENT
DESIG
LOW FORECAS | 15200.
15100.
14600.
16000. | EMPLOYMENT
DESIG
LOW FORECAS | 5100.
5700.
6200.
7700. |
| | T07AL | 2900.
2900.
2900.
3100. | T0TAL | 544600.
541000.
534300.
522600. | | T0TAL | 15800.
15300.
15100.
17200. | T0TAL | 5800.
6200.
7200.
10400. |
| | DESIGN
FORECAST | 19500.
25000.
23900.
24000.
23900.
21500. | ATION
DESIGN
FORECAST | 698000.
641000.
579000.
573500.
599400. | | DESIGN
FORECAST | 54000.
58200.
64000.
64900.
63400. | TION
DESIGN
FORECAST | 26400.
27200.
34000.
42800.
44300. |
| ** | POPULAT | 23600.
23600.
23500.
20200. | POPULAT | 574900.
560500.
559500.
549500. | | POPULAT | 63200.
63000.
61600.
55900. | POPULAT | 33600.
34400.
35600. |
| WEST ROXBURY | HIGH LOW FORECAS | 24200.
24400.
24200.
22700. | CITY OF 3CSTONTOTAL POPULATION DESIGN HIGH LOW FORECAST | 532900.
537200.
639100.
67£500. | TCWN OF SFOOKLINE | DESIGN LOW FORECAST | 54800.
56800.
65200.
63100. | TCWN OF MILTONTOTAL POPULATION DESIGN HIGH LOW FORECAST | 34300.
38200.
49900.
52700. |
| 125 | | 1960
1970
1990
2000
2020
2050 | C117 | 1960
1970
1990
2020
2020 | TCWN C | | 1940
1970
1950
2000
2020
2050 | TCWN C | 1960
1970
1990
2000
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | OTHER EMPLOYMENT DESIGN HIGH LOW FORECAST | 16200.
26200.
28800.
28400.
25400.
26400. | EMPLOYMENT
DESIGN
LOW FORECAST | 498400.
608000.
620500.
607000.
582400. | | OTHER EMPLOYMENT DESIGN HIGH LOW FORECAST | 198500.
312700.
391500.
6 403200.
6 416700. | EMPLOYMENT
DESIGN
LOW FORECAST | 82900-
166100-
325700-
410500-
616300- |
|----------------|---|--|---|---|---------|---|--|--------------------------------------|---|
| | HER ENP | 27700.
27800.
23800.
25200. | | 615400.
598200.
565100.
564300. | | THER EMP | 375500•
395100•
399700•
437600• | | 308400.
407900.
585800. |
| | н16н | 29800.
28800.
26900.
27600. | 0THER | 625400.
615900.
599800.
590700. | | н16н | 407800.
411100.
433600.
485300. | 0THER | 342300.
413500.
646600. |
| | PLOYMENT
DESIGN
FORECAST | 10600.
3800.
2600.
1600.
400.
300. | PLOYMENT
DESIGN
FORECAST | 129700.
97200.
46000.
42100.
37000. | | PLOYMENT
DESIGN
FORECAST | 138500.
126600.
107600.
96900.
77500. | EMPLOYMENT
DESIGN | 55300.
78200.
94100.
95600.
98100. |
| | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 2300.
1400.
400.
300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 40600.
39300.
35800. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 95800.
86700.
67800.
38000. | <u> </u> | 82500.
82900.
85100. |
| | MANUFACT | 2900.
1800.
400.
300. | MANUFACT | 51200.
50600.
48000.
41500. | | MANUFAC | 118700.
107100.
87200.
57900. | MANUFACTURING
HIGH LO | 106900.
108800.
111400. |
| | DESIGN
FORECAST | 26800.
30000.
31400.
29900.
25800.
26700. | MENT
DESIGN
FORECAST | 628000.
705500.
666700.
651800.
624400. | | MENT
DESIGN
FORECAST | 337500.
439700.
498700.
500000.
493900.
509500. | MENT
DESIGN
FORECAST | 138700.
244300.
419700.
506500.
714000. |
| | EMPLOYMENT DESIG | 30100.
29200.
24300.
25500. | EMPLOY | 656600.
637400.
600900.
597200. | | EMPLOY | 471300.
481400.
467400.
475800. | EMPLUYMENT
DESIGN
LOW FORECAST | 391600.
490800.
670500. |
| | HIGH | 32700.
30700.
27300.
27900. | T0TAL | 676700.
666200.
647800. | | TOTAL | 526500.
518000.
521100.
543000. | T0TAL | 448800.
521700.
757200. |
| | DESIGN
FORECAST | 92400.
91100.
100200.
105900.
111100. | DESIGN FORECAST | 961400.
961400.
877900.
870400.
885700. | | TION
DESIGN
FORECAST | 1258300.
1368400.
1545900.
1614900.
1687500. | TION
DESIGN
FORECAST | 558000.
799400.
1142500.
1321300. |
| | POPULA | 988C0.
103100.
105400.
103400. | A
TOTAL POPULATION
DESIGN
41GH LOW FORECAST | 871800.
851500.
835300.
799000. | | POPULA | 1515700.
1564800.
1593000.
1492400. | POPUL | 1113400.
1275400.
1508200. |
| CITY OF NEWTON | T0TAL | 131700.
138500.
116800.
120600. | AREA
TOTAL
41GH | 832800.
889900.
935700. | SUBURBS | T0TAL | 1576300.
1665500.
1782100.
1838100. | SUBURBS
TOTAL
HIGH | 1171100-
1357300-
1738000- |
| CITY | | 1960
1970
1990
2000
2020
2050 | CORE A | 1960
1970
1990
2000
2020
2050 | INNER | | 1960
1970
1990
2000
2020
2050 | CUTER | 1560
1990
2000
2020 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| | | 1 - 1 | 1555 SS | | | | | | 126 | |
|---------------------|---|--|---|--|---------------------|---|---|----------------|---|--|
| | DESIGN
PORECAST | 66200-
93100-
127000-
138900-
165000-
222100- | EMPLOYMENT
DESIGN
LOW FORECAST | 45900-
86300-
131300-
141500-
161200-
192700- | | EMPLOYMENT
DESIGN
LOW FORECAST | 24700-
41000-
68800-
86100-
134100-
216100- | | DESIGN
PORECAST | 136700.
192300.
216.00.
272400. |
| | OTHER EMPLOYMENT
DESIGN
IIGH LOW FORECAST | 120600.
136100.
158600.
206000. | EMPL | 125100.
138600.
153500.
179900. | | EMPLO | 64700.
83600.
126300.
198300. | | HIGH LOW FORECAST | 184100.
216800.
259500.
337000. |
| | н16н | 133300.
141800.
172000.
237700. | ОТНЕВ | 137700.
144500.
168500.
205300. | | 0THER | 73200.
88300.
141300.
233800. | | н16н | 199700.
220000.
285500.
390300. |
| | PLOYMENT
DESIGN
FORECAST | 47800.
45400.
44200.
40900.
35500.
28800. | PLOYMENT
DESIGN
FORECAST | 25000.
29000.
28100.
26400.
23000. | | PLOYMENT
DESIGN
FORECAST | 10500.
18500.
20400.
21300.
21300. | | PLOYMENT
DESIGN
FORECAST | 66500.
64400.
60400.
55900.
51100. |
| | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 39300.
36900.
31500.
24200. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 25900.
23900.
20700.
12100. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 17600.
17800.
18000.
17100. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 51400.
47700.
43030. |
| | MANUFACT | 48400.
45300.
40000.
33600. | MANUFACT | 30600.
28600.
25200.
19200. | | MANUFACT | 23600•
24800•
24700•
25300• | | MANUFACT | 69400.
64100.
58900.
50700. |
| | DESIGN
PORECAST | 114100.
138500.
170800.
180200.
200600.
250600. | MENT
DESIGN
FORECAST | 70800.
115300.
159600.
167600.
184000. | | MENT
DESIGN
FORECAST | 35500.
59700.
89300.
107300.
155300.
237400. | | MENT
DESIGN
FORECAST | 144100.
201500.
252200.
274300.
323400.
406100. |
| | EMPLO | 160000.
172800.
189600.
230300. | EMPLOY | 151100.
162200.
174200.
192000. | | EMPLCY | 82500.
101500.
144300.
215800. | | EMPLOY | 235500.
264500.
302700.
371100. |
| | TOTAL | 181900.
186800.
211900.
271500. | T0TAL | 168300.
172800.
193600.
224200. | | TOTAL | 96400•
112900•
166200•
259000• | | T0TAL | 268900.
284000.
344200.
441100. |
| | DESIGN
FORECAST | 411600.
457500.
528100.
556300.
600400. | TION
DESIGN
FORECAST | 331800.
386500.
455200.
478800.
496700. | | DESIGN
PORECAST | 183000.
233900.
306800.
345900.
419000. | | DESIGN
PORECAST | 412200.
491200.
635600.
707300.
818600. |
| TOR | LOW | 519300.
542300.
572000. | POPULA | 445500.
467800.
474600.
426800. | TCR | TOTAL POPULATION
DE
IGH LOW FORE | 301100.
335400.
389400. | | LOW | 621900.
684200.
767500.
804500. |
| NORTHEASTERN SECTOR | HIGH | 537000.
570000.
629100.
705500. | NORTHERN SECTOR | 454200.
490100.
518900.
545600. | NORTHWESTERN SECTOR | TOTAL | 312500.
356600.
448700.
614200. | WESTERN SECTOR | T0TAL | 649400.
730600.
859800. |
| NORTHE | | 1960
1970
1990
2000
2020
2050 | NORTHE | 1960
1970
1990
2000
2020
2050 | NORTH | | 1960
1970
1990
2000
2020
2050 | WESTER | | 1960
1970
1990
2020
2050 |

METROPOLITAN DISTRICT COMMISSION WASTEWATER STUDY SUMMARY - SMALL AREA POPULATION AND EMPLOYMENT DESIGN FORECASTS (1960 - 2050)

| DESIGN
FORECAST | 16200.
26200.
28800.
28400.
25400. | DESIGN
FORECAST | 498400.
608000.
620500.
607000.
582400.
577700. | DESTON FORECAST | 198500.
312700.
391600.
403200.
416700. | DESTON FORECAST | 82900.
166100.
325700.
410500. |
|---|--|---|--|---|--|---|--|
| OTHER EMPLOYMENT
DESIGN
IGH LOW FORECAST | 27700.
27800.
23800.
25200. | OTHER EMPLOYMENT-
DESI
HIGH LOW FORECA | 615400.
598200.
565100.
564300. | OTHER EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 375500.
395100.
399700.
437600. | OTHER EMPLOVMENT
DESIGN
HIGH LOW FORECAST | 308400.
407900.
585800. |
| н16н | 29800.
28800.
26900.
27600. | H16H | 625400.
615900.
599800.
590700. | H16H | 407800.
411100.
433600.
485300. | HIGH | 342300.
413500.
646600. |
| PLOYMENT
DESIGN
FORECAST | 10600.
3800.
2600.
1600.
400.
300. | MPLOYMENT
DESIGN
FORECAST | 129700.
97200.
46000.
42100.
37000. | PLOYMENT
DESIGN
FORECAST | 138500.
126600.
107600.
96900.
77500. | APLOYMENT
DESIGN
FORECAST | 55300.
78200.
94100.
95600. |
| MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 2300.
1400.
400.
300. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 40600.
39300.
35800. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 95800.
86700.
67800.
38000. | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 82500.
82900.
85100. |
| MANUFACT | 2900.
1800.
400.
300. | MANUFACT | 51200.
50600.
48000.
41500. | MANUFACT | 118700.
107100.
87200.
57900. | MANUFACT | 106900. |
| DESIGN
PORECAST | 26800.
30000.
31400.
29900.
25800.
26700. | MENT
DESIGN
FORECAST | 628000.
705500.
666700.
651800.
624400.
614500. | MENT
DESIGN
FORECAST | 337500.
439700.
498700.
500000.
493900.
509500. | PMENT
DESIGN
FORECAST | 138700.
244300.
419700.
506500. |
| EMPLO | 30100.
29200.
24300.
25500. | EMPLOY | 656600.
637400.
600900.
597200. | EMPLOV | 471300.
481400.
467400.
475800. | EMPLO | 391600.
490800.
670500. |
| HIGH | 32700.
30700.
27300.
27900. | T07AL | 676700.
666200.
647800.
631800. | T0TAL | 526500.
518000.
521100.
543000. | HIGH | 448800.
521700.
757200. |
| DESIGN
FORECAST | 92400.
91100.
100200.
105900.
111100. | DESIGN FORECAST | 1031600.
961400.
877900.
870400.
885700. | TION
DESIGN
FORECAST | 1258300.
1368400.
1545900.
1614900.
1687500. | TION
DESIGN
FORECAST | 558000.
799400.
1142500.
1321300. |
| TOTAL POPULATIO | 988C0.
103100.
105400.
103400. | POPULA | 871800.
851500.
835300.
799000. | URBS
TOTAL POPULATION
DESIGN
IIGH LCW FORECAST | 1515700.
1564800.
1593000.
1492400. | POPULA | 1113400. |
| T0TAL | 131700.
138500.
116800.
120600. | AREATOTAL -11GH | 832800.
889900.
935700.
957700. | SUBURBS
TOTAL
HIGH | 1576300. 1
1665500. 1
1782100. 1 | SUBURBS
TOTAL
HIGH | 1171100. 1 |
| | 1960
1970
1990
2000
2020
2050 | CORE | 1960
1970
1990
2000
2020
2050 | INNER | 1960
1970
1990
2000
2020
2050 | CUTER | 1960
1990
2000
2000 |

| | OTHER EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 24500.
45100.
10. 108700.
10. 160300. | | EMPLOYMENT
DESIGN
LOW FORECAST | 42700.
76600.
10600.
12000.
140000. | | EMPLOYMENT
DESIGN
LOW FORECAST | 779800.
1086800.
10. 1337800.
10. 1420700.
10. 2005700. |
|---|---|--|---------------------|---|--|--------------|---|--|
| | THER EMP | 83700.
109400.
153800.
221700. | | THER EMP | 105700.
118500.
133800.
177500. | | | 1299300.
1401200.
1550600.
1884700. |
| | H16H | 91000•
108300•
166600•
260400• | | HIGH | 115200•
121700•
146300•
207100• | | ОТНЕЯ
HIGH | 1375500-
1440500-
1680000-
2125300- |
| | MPLOYMENT
DESIGN
FORECAST | 19200.
21500.
24000.
24700.
24300.
20700. | | MANUFACTURING EMPLOYMENT DESIGN HIGH LOW FORECAST | 24600.
24600.
24600.
23300.
20400.
16900. | | MPLOYMENT
DESIGN
FORECAST | 323500.
302000.
247700.
237400.
217700. |
| | MANUFACTUFING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 21000.
21200.
20600.
16100. | | CTURING E | 23100.
22100.
19100.
12900. | | MANUFACTURING EMPLOYMENT
DESIGN
HIGH LOW FORECAST | 218900.
208900.
188700.
149200. |
| | MANUFAC | 27200.
28300.
28100.
24900. | | MANUFA | 26400.
24800.
21700.
21000. | | MANUFA | 276800.
266500.
246600.
216200. |
| | EMPLOYMENT
DESIGN
LOW FORECAST | 43900.
66500.
1111400.
133800.
184300.
261600. | | EMPLOYMENT
DESIGN
LOW FORECAST | 67800.
102500.
135100.
143300.
160300.
209200. | | EMPLOYMENT
DESIGN
LOW FORECAST | 1104200.
1389500.
1585100.
1658300.
1832300.
2187700. |
| | EMPLOY | 104900.
130700.
174400.
237700. | | LOW | 128900.
140500.
152700.
190300. | | | 1519500.
1609600.
1738800.
2034400. |
| | T07AL | 118100-
136700-
194600-
285500- | | T07AL | 141700.
146500.
167800.
227800. | | T0TAL | 1652000•
1705900•
1926100•
2340900• |
| | DESIGN
DESIGN
FORECAST | 175600.
234700.
318800.
368300.
445200.
540500. | | DESIGN
DESIGN
FORECAST | 302100.
364000.
443500.
479600.
530600.
571300. | | DESIGN
PORECAST | 2847900.
3129200.
3566300.
3806600.
4196200. |
| - | PULA | 310600.
355300.
415300. | CTOR | LOW | 430700.
455200.
482400.
490100. | 10N | TOPOULA | 3500900.
3691700.
3936500.
3998200. |
| | SOUTHWESTERN SECTORTOTAL POPULAT HIGH LOW F | 327000.
331100.
475000.
616700. | SOUTHEASTERN SECTOR | TOTAL POPULAT | 457300.
534400.
576600.
652800. | STUCY REGION | TOTAL POPULATION DESIGN HIGH LOW FORECAST | 3631200.
3922700.
4455800.
5134300. |
| - | S007 | 1960
1970
1990
2000
2020
2050 | SOUTH | | 1960
1970
1990
2000
2020
2050 | TOTAL | | 1960
1970
1990
2000
2020
2050 |
| | | | | | | | | |

APPENDIX N

SIC CATEGORIES OF DEPENDENT VARIABLES AND EMRPP LAND-USE CATEGORIES

APPENDIX N

SIC CATEGORIES OF DEPENDENT VARIABLES AND EMRPP LAND-USE CATEGORIES

SIC Categories of Dependent Variables

- I-1 Dry manufacturing SIC code No. 19, 205, 21, 227, 228, 23, 24, 25, 27, 301, 302, 31 (except 311), 32 (except 324, 329), 332, 334, 339, 34 (except 347), 35, 36, 37 (except 372, 373), 38, 39 (except 394);
- I-2 Wet manufacturing SIC code No. 20 (except 205, 206), 22 (except 227, 228), 264, 265, 266, 267, 28, 29 (except 291), 30 (except 301, 302), 311, 324, 329, 331, 335, 336, 347, 372, 373, 394(;
- I-3 Very wet manufacturing SIC code No. 206, 261, 262, 263, 291;
- I-4 Industrial nonmanufacturing SIC code No. 01-17, 40-50; and
- I-5 Commercial SIC code No. 52-94.

EMRPP Land-Use Categories

- Residential EMRPP land-use codes 01, 02, 03, 05, 08, 09, 97;
- 2. Commercial (including intensive institutional) codes 06, 41, 42, 43, 44, 45, 46, 47, 48, 49, 61, 64, 65, 69, 71, 72, 73, 74, 75 (part), 77, 78, 79, 98 (part);
- Industrial/nonmanufacturing codes 11, 14, 15, 16, 21, 22, 23, 24, 25, 28, 29, 98 (part);
- 4. Industrial/nonmanufacturing codes 32, 34, 35, 39, 55, 56, 59, 98 (part);
- 5. Extensive industrial codes 31, 33, 36, 37;
- 6. Extensive institutional codes 75 (part), 76;
- Streets and highways (including major parking facilities) codes 67, 68, 99;

- 8. Restricted open space (e.g., recreational) codes 83, 85, 86, 93, 94; and
- 9. Vacant codes 91, 92.

University lands, code 75, were initially assigned to the commercial category. Some lands, however, were transferred back to extensive institutional category based on specific data obtained in our research on major institutions. Nonresidential construction projects, code 98, were proportionately allocated in each district to the commercial and the two industrial categories.

APPENDIX O
MANUFACTURING GROWTH INDUSTRIES

APPENDIX 0

MANUFACTURING GROWTH INDUSTRIES

| | Manufacturing industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|-------|--------------------------------------|--------------------------|--------------------------------|----------------------------------|
| FOOD | FOOD AND KINDRED PRODUCTS - 20 | | | |
| 2011 | Meatpacking plants | | × | × |
| 2013 | Sausages and other prepared meats | | × | |
| 2033 | Canned fruits and vegetables | | × | × |
| 2036 | Fresh or frozen packaged fish | | × | × |
| 2042 | Prepared feeds for animals and fowls | | × | × |
| 2051 | Bread, cakes, and related products | | × | |
| TEXTI | TEXTILE MILL PRODUCTS - 22 | | | |
| 2221 | Weaving mills: synthetic products | | × | |
| 2241 | Narrow fabric mills | | × | |
| 2261 | Finishing plants: cotton products | | × | × |
| 2271 | Woven carpets and rugs | × | | |
| 2272 | Tufted carpets and rugs | × | | |
| | | | | |

MANUFACTURING GROWTH INDUSTRIES (Continued)

| | Manufacturing industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|-------|---|--------------------------|--------------------------------|----------------------------------|
| 2279 | Carpets and rugs, N.E.C. | × | | |
| 2284 | Thread mills | | × | |
| 2292 | Lace goods | | × | |
| 2294 | Processed textile waste | | × | |
| APPAR | APPAREL AND OTHER TEXTILE PRODUCTS | - 23 | | |
| 2321 | Men's and boys' shirts and
nightwear | | × | |
| 2337 | Women's and misses' suits and coats | | × | × |
| 2352 | Hats and caps, except millinery | Ą. | * | |
| 2361 | Children's dresses and blouses | | × | × |
| 2386 | Leather and sheep-lined clothing | Ing | × | |
| 2392 | House furnishings | | × | × |
| 2399 | Fabricated textile products | | × | |
| LUMBE | LUMBER AND WOOD PRODUCTS - 24 | | | |
| 2431 | 2431 Millwork | × | × | |
| 2432 | Veneer and plywood | * | | |
| 2433 | Prefabricated wood structures | * | × | |
| | | | | |

MANUFACTURING GROWTH INDUSTRIES (Continued)

| | Manufacturing industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|-------|------------------------------------|--------------------------|--------------------------------|----------------------------------|
| FURNI | FURNITURE AND FIXTURES - 25 | | | |
| 2511 | Wood household furniture | × | × | |
| 2541 | Wood partitions and fixtures | × | × | |
| 2545 | Metal partitions and fixtures | * | | |
| PAPER | PAPER AND ALLIED PRODUCTS - 26 | | | |
| 2643 | Bags, except textile bags | | × | |
| 5649 | Converted paper products | | × | × |
| PRINT | PRINTING AND PUBLISHING - 27 | | | |
| 2731 | Book publishing | | × | × |
| CHEMI | CHEMICALS AND ALLIED PRODUCTS - 28 | | | |
| 2812 | Alkalies and chlorine | × | | |
| 2813 | Industrial gases | × | | |
| 2815 | Cyclic intermediates and crudes | × | | |
| 2816 | Inorganic pigments | × | | |
| 2831 | Biological products | × | | |
| 2833 | Medicinals and botanicals | × | | |
| 2834 | Pharmaceutical preparations | × | | |

MANUFACTURING GROWTH INDUSTRIES (Continued)

| Manufacturing industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|--|--------------------------|--------------------------------|----------------------------------|
| 2841 Soap and other detergents | × | | |
| 2842 Polishes and sanitation goods | × | | |
| 2843 Surface active agents | × | | |
| 2844 Toilet preparations | × | | |
| RUBBER AND MISCELLANEOUS PLASTICS
PRODUCTS - 30 | | | |
| 3079 Miscellaneous plastics products | * | | |
| STONE, CLAY, AND GLASS PRODUCTS - 32 | | | |
| 3271 Concrete blocks and bricks | | × | |
| FABRICATED METAL PRODUCTS - 34 | | | |
| 3431 Metal sanitary ware | × | | |
| 3432 Plumbing fittings and brass goods | × | | |
| 3433 Heating equipment, except electric | × | | |
| 3446 Architectural metalwork | | × | × |
| 3451 Screw machine products | × | | |
| 3452 Bolts, nuts, rivets and washers | × | | |
| 3461 Metal stampings | × | | |
| | | | |

MANUFACTURING GROWTH INDUSTRIES (Continued)

| 3471 Plating and polishing X 3479 Metal coating and allied services X MACHINERY, EXCEPT ELECTRICAL - 35 3536 Hoists, cranes, and monoralis X 3541 Machine tools, metal-cutting types X 3542 Machine tools, metal-forming types X 3544 Special dies, tools, jigs, and X 3544 Special dies, tools, jigs, and X 3551 Food products machinery X 3552 Textile machinery X 3553 Woodworking machinery X 3554 Paper industries machinery X 3555 Printing trades machinery X 3556 Printing trades machinery X 3557 Bumps and compressors X 3568 Ball and roller bearings X 3568 Ball and roller bearings | 65
65
85 | Manufacturing industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|--|----------------|---|--------------------------|--------------------------------|----------------------------------|
| Metal coating and allied services X NERY, EXCEPT ELECTRICAL - 35 Hoists, cranes, and monoralis X Industrial trucks and tractors X Machine tools, metal-forming types X Special dies, tools, jigs, and firtures Machine tool accessories X Special dies, tools, jigs, and X Tixtures Machine tool accessories X Special dies, tools, jigs, and X Textile machinery X Textile machinery X Paper industries machinery X Paper industries machinery X Pumps and compressors X Ball and roller bearings X Ball and roller bearings | 3471 | Plating and polishing | × | | |
| Holsts, except Electrical - 35 Holsts, cranes, and monoralis X Industrial trucks and tractors X Machine tools, metal-cutting types X Special dies, tools, jigs, and X Machine tool accessories X Food products machinery X Textile machinery X Woodworking machinery X Faper industries machinery X Fumps and compressors X Fumps and compressors X Ball and roller bearings X Ball and roller bearings | 3479 | | | | |
| Hoists, cranes, and monoralis X Industrial trucks and tractors X Machine tools, metal-cutting types X Machine tools, metal-forming types X Special dies, tools, jigs, and X fixtures Machine tool accessories X Machine tool accessories X Food products machinery X Textile machinery X Woodworking machinery X Paper industries machinery X Printing trades machinery X Printing trades machinery X Printing trades machinery X Pumps and compressors X Ball and roller bearings X | MACHI | | | | |
| Industrial trucks and tractors X Machine tools, metal-cutting types X Special dies, tools, jigs, and X Special dies, tools, jigs, and X Machine tool accessories X Food products machinery X Textile machinery X Woodworking machinery X Paper industries machinery X Printing trades machinery X Ball and compressors X Real and roller bearings X | 3536 | | * | | slic op a |
| Machine tools, metal-cutting types X Machine tools, metal-forming types X Special dies, tools, jigs, and fixtures Machine tool accessories X Food products machinery X Woodworking machinery X Woodworking machinery X Printing trades machinery | 3537 | Industrial trucks and tractors | × | | |
| Machine tools, metal-forming types X Special dies, tools, jigs, and fixtures Machine tool accessories X Food products machinery X Woodworking machinery X Woodworking machinery X Printing trades mach | 3541 | Machine tools, metal-cutting ty | | | 10- |
| Special dies, tools, jigs, and X fixtures Machine tool accessories Food products machinery Textile machinery Woodworking machinery Paper industries machinery Printing trades machinery Printing trades machinery Printing trades machinery Modworking machinery X Rall and compressors X Ball and roller bearings X X | 3545 | | | | |
| Machine tool accessories Pood products machinery Textile machinery Woodworking machinery Paper industries machinery Printing trades machinery Printing trades machinery Mail and compressors X Ball and roller bearings X | 3544 | Special dies, tools, jigs, and fixtures | × | | |
| Food products machineryXXTextile machineryXXWoodworking machineryXXPaper industries machineryXXPrinting trades machineryXXPumps and compressorsXXBall and roller bearingsXX | 3545 | Machine tool accessories | × | | |
| Textile machinery Woodworking machinery Paper industries machinery Printing trades machinery Pumps and compressors X X X Ball and roller bearings X | 3551 | Pood products machinery | × | × | * |
| Woodworking machineryXPaper industries machineryXPrinting trades machineryXPumps and compressorsXBall and roller bearingsX | 3552 | Textile machinery | × | | 1) |
| Paper Industries machineryXXPrinting trades machineryXXPumps and compressorsXXBall and roller bearingsXX | 3553 | Woodworking machinery | × | | |
| Printing trades machineryXXPumps and compressorsXXBall and roller bearingsX | 3554 | Paper industries machinery | × | × | |
| Pumps and compressors X X Ball and roller bearings X | 3555 | | × | TO MANAGEMENT ASSESSMENT OF | |
| Ball and roller bearings | 1958 | Pumps and compressors | × | × | × |
| | 3562 | | × | | |

MANUFACTURING GROWTH INDUSTRIES (Continued)

| | Manufacturing industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|-------|--|--------------------------|--------------------------------|----------------------------------|
| 3564 | Blowers and fans | × | a | |
| 3566 | Power transmission equipment | × | | |
| 3567 | Industrial furnaces and ovens | × | | |
| 3574 | Calculating and accounting machines | × | | |
| 3579 | Office machines | | × | |
| 3589 | Service industry machines | | × | × |
| ELECT | ELECTRICAL EQUIPMENT AND SUPPLIES - 36 | 96 | | |
| 3621 | Motors and generators | | × | |
| 3631 | Household cooking equipment | × | | |
| 3632 | Household refrigerators and freezers | × | | |
| 3633 | Household laundry equipment | * | | |
| 3634 | Electric housewares and fans | × | | |
| 3635 | Household vacuum cleaners | * | | |
| 3636 | Sewing machines | * | | |
| 3641 | Electric lamps | × | | |
| 3642 | Lighting fixtures | × | | |

MANUFACTURING GROWTH INDUSTRIES (Continued)

| 3643 | Manufacturing industry | industry | growth industry | growth industry |
|--------|--|----------|-----------------|-----------------|
| ראאכ | Current-carrying wiring devices | × | × | * |
| 2021 | Radio and TV receiving sets | | × | |
| 3661 | Telephone and telegraph apparatus | | * | |
| 3662 | Radio and TV communication equipment | × | * | |
| 3671 | Electron tubes, receiving type | × | | |
| 3672 | Cathode ray pictures tubes | × | | |
| 3673 | Electron tubes, transmitting | * | | |
| 3674 | Semiconductors | × | | |
| 3679 | Electronic components, n.e.c. | | × | |
| INSTRU | INSTRUMENTS AND RELATED PRODUCTS - 38 | , | | |
| 3831 | Optical instruments and lenses | × | | |
| 3851 | Ophthalmic goods | × | × | |
| MISCEL | MISCELLANEOUS MANUFACTURING INDUSTRIES - | - 39 | | |
| 3914 | Silverware and plated ware | | * | |
| 3955 | Carbon paper and inked ribbons | | * | |

WHOLESALE GROWTH INDUSTRIES

| 1 | Wholesale industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|------|-----------------------------|--------------------------|--------------------------------|----------------------------------|
| 5015 | Automobiles | × | | × |
| 5013 | Automotive equipment | × | | × |
| 5014 | Tires, tubes | × | | × |
| 5022 | Drugs | × | × | |
| 5028 | Paints and varnishes | | | × |
| 5029 | Other chemicals | × | | |
| 5034 | Notions and dry goods | × | | |
| 5041 | General line groceries | × | | |
| 5045 | Confectionary | × | | × |
| 2048 | Fresh fruits and vegetables | | | * |
| 5063 | Electrical supplies | × | | |
| 5064 | Electrical appliances | × | | |
| 2905 | Electronic parts | × | | |
| 5072 | Hardware | × | | × |
| 5077 | Air conditioning equipment | × | | × |
| 5082 | Commercial machinery | × | X | |
| 5083 | Farm and garden machinery | × | | |

WHOLESALE GROWTH INDUSTRIES (Continued)

| | Wholesale industry | U. S. growth
industry | New England
growth industry | Massachusetts
growth industry |
|------|--------------------------------|--------------------------|--------------------------------|----------------------------------|
| 5086 | 5086 Professional equipment | × | × | × |
| 2087 | Service estab. equipment | × | | × |
| 5088 | Transportation equipment | × | | |
| 5092 | Petroleum bulk stations | | × | |
| 5094 | Tobacco, tobacco products | | × | × |
| 5605 | Alcoholic beverages | × | | × |
| 9609 | 5096 Paper products | × | | |
| 2005 | 5097 Furniture | | × | × |
| 5098 | Lumber, construction materials | | × | |
| 5099 | Miscellaneous products | × | | |
| - | | | | |